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Abh. hessisch. geol. Landesanst. Abhandlungen der grossherzoglich hessischen geologischen Landesanstalt. Darmstadt.
Abh. k.-bayer. Akad. Wissensch. Abhandlungen der königlich-bayerischen Akademie der Wissenschaften. Munich.
Abh. k.-k. geol. Reichsanst. Abhandlungen der kaiserlich-königlich geologischen Reichsanstalt. Vienna.
Abh. k. Leop.-Car. deutsch. Akad. Abhandlungen der kaiserlichen Leopoldinisch-Carolinischen deutschen Akademie der Naturforscher. Halle. See also *Nova Acta Acad. Cæs. Leop.-Car.*
Abh. k.-preuss. geol. Landesanst. Abhandlungen der königlich-preussischen geologischen Landesanstalt. Berlin.
Abh. Mus. Nat. v. Heimatk. Magdeburg. Abhandlungen und Berichte. Museum für Natur- und Heimatkunde. Magdeburg.
Abh. naturf. Gesellsch. Halle. Abhandlungen der naturforschenden Gesellschaft zu Halle. Stuttgart.
Abh. naturh. Gesellsch. Nürnberg. Abhandlungen der naturhistorischen Gesellschaft. Nürnberg.
Abh. schw. paläont. Gesellsch. See *Mém. Soc. paléont. suisse.*
Abh. Senckenb. naturf. Gesellsch. Abhandlungen herausgegeben von der Senckenbergischen naturforschenden Gesellschaft. Frankfurt-on-the-Main.
Abs. Proc. G. S. Abstracts of the Proceedings of the Geological Society. London.
Actes Soc. helv. Sci. nat. Actes de la Société helvétique des Sciences Naturelles. Berne, &c. See also *Verh.-schweiz. naturf. Gesellsch.*
Actes Soc. Linn. Bordeaux. Actes de la Société Linnéenne de Bordeaux. Bordeaux.
Actes Soc. sci. Chili. Actes de la Société scientifique du Chili. Santiago de Chile.
Alabama Geol. Surv. Geological Survey of Alabama. Montgomery (Ala.).
Am. Geol. American Geologist. Minneapolis (Minn.). See *Econ. Geol.*
Am. Journ. Sci. American Journal of Science. New Haven (Conn.).
An. Inst. geol. României. Anuarul Institutului geologic al României. Bukharest.
An. Mus. La Plata. Anales del Museo de la Plata. La Plata.
An. Mus. Nac. Buenos Aires. Anales del Museo Nacional de Buenos Aires. Buenos Aires.
An. Soc. cient. Argent. Anales de la Sociedad científica Argentina. Buenos Aires.
Ann. Acad. Roy. Belg. Annuaire de l'Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique. Brussels.
Ann. Bull. Min. Resources, Kansas, Univ. Geol. Surv. Kansas. Annual Bulletin on the Mineral Resources of Kansas. Laurence (Kan.).
Ann. Club alpin franç. Annuaire du Club alpin français. Paris.
Ann. Escola Minas, Ouro Preto. Annaes da Escola de Minas. Ouro Preto (Brazil).
Ann. Géol. et Paléont. Palerme. Annales de Géologie et de Paléontologie. Palermo.
Ann. k.-k. naturhist. Hofmus. Wien. Annalen des kaiserlich-königlichen naturhistorischen Hofmuseums. Vienna.
Ann. Mag. Nat. Hist. Annals and Magazine of Natural History. London.
Ann. Mines, Paris. Annales des Mines. Paris.
Ann. N.Y. Acad. Sci. Annals of the New York Academy of Sciences. New York.

- Ann. R. Univ. Toscana.* Annuario della Reale Università di Toscana. Pisa.
- Ann. Rep. Am. Mus. Nat. Hist. N.Y.* Annual Report of the American Museum of Natural History. New York.
- Ann. Rep. Bristol Public Lib.* Annual Report of the Bristol Public Library and Museum. Bristol.
- Ann. Rep. Bur. Mines, B.C.* Annual Report of the Bureau of Mines, British Columbia. Victoria (B.C.).
- Ann. Rep. Dep. Geol. Indiana.* Annual Report of the Department of Geology and Natural Resources of Indiana. Indianapolis (Ind.).
- Ann. Rep. Dep. Mines, N.S.W.* Annual Report of the Department of Mines and Agriculture, New South Wales. Sydney.
- Ann. Rep. Dep. Mines, Queensl.* Annual Report of the Under Secretary for Mines, Queensland. Brisbane. See also *Geol. Surv. Queensl., Publ.*
- Ann. Rep. Geol. Comm. Cape Colony.* Annual Report of the Geological Commission, Cape Colony. Cape Town.
- Ann. Rep. Geol. Surv. Canada.* Annual Report of the Geological Survey of Canada. Ottawa. See also *Summ. Rep.*
- Ann. Rep. Geol. Surv. Gt. Brit.* Annual Report of the Geological Survey of Great Britain. London.
- Ann. Rep. Geol. Surv. Natal.* Annual Report of the Geological Survey of Natal. Pietermaritzburg.
- Ann. Rep. Geol. Surv. New Jersey.* Annual Report of the Geological Survey of New Jersey. Trenton (N.J.).
- Ann. Rep. Geol. Surv. N.Z.* Annual Report of the Geological Survey of New Zealand. Wellington (N.Z.).
- Ann. Rep. Geol. Surv. Queensl.* Annual Progress Report of the Geological Survey of Queensland. Brisbane.
- Ann. Rep. Geol. Surv. Transvaal.* Annual Report of the Geological Survey of the Transvaal. Pretoria.
- Ann. Rep. Geol. Surv. W. Austr.* Annual Progress Report of the Geological Survey. Perth (W. Austr.).
- Ann. Rep. Indian Mus. Calcutta.* Annual Report of the Indian Museum. Calcutta.
- Ann. Rep. Mus. Comp. Zool.* Annual Report of the Assistant in Charge of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
- Ann. Rep. Nat. Hist. Surv. Minn.* Annual Report of the Geological and Natural History Survey of Minnesota. Minneapolis (Minn.).
- Ann. Rep. N.Y. State Mus.* Annual Report of the New York State Museum. Albany.
- Ann. Rep. Phil. Soc., Leeds.* Annual Report of the Philosophical Society. Leeds.
- Ann. Rep. Rhodesia Chamber of Mines, Bulawayo.* Annual Report of the Rhodesia Chamber of Mines. Bulawayo (Rhodesia).
- Ann. Rep. Rhodesia Mus.* Annual Report of the Rhodesia Museum. Bulawayo.
- Ann. Rep. Roy. Cornwall Polyt. Soc.* Annual Report of the Royal Cornwall Polytechnic Society. Falmouth.
- Ann. Rep. Sec. Mines, Victoria.* Annual Report of the Secretary of Mines, Victoria. Melbourne.
- Ann. Rep. Smiths. Inst. Rep. U.S. Nat. Mus.* Annual Report of the Board of Regents of the Smithsonian Institution. Report of the United States National Museum. Washington (D.C.).
- Ann. Rep. State Geol. Vermont.* Annual Report of the State Geologist of Vermont. Montpelier (Vt.).
- Ann. Rep. U.S. Geol. Surv.* Annual Report of the United States Geological Survey. Washington (D.C.).
- Ann. Rep. Wellington Coll. Nat. Sci. Soc.* Annual Report of the Wellington College Natural Science Society. Wellington College.
- Ann. Rep. Yorks. Phil. Soc.* Annual Report of the Yorkshire Philosophical Society. York.
- Ann. S.A. Mus., Cape Town.* Annals of the South African Museum. Cape Town.
- Ann. sci. Acad. polyt. Porto.* Annaes scientificos da Academia polytechnica do Porto. Coimbra.
- Ann. Sci. nat. (Zool. & Paléont.).* Annales des Sciences naturelles: Zoologie et Paléontologie. Paris.
- Ann. Sci. Univ. Jassy.* Annales scientifiques de l'Université de Jassy. Jassy (Rumania).
- Ann. Soc. géol. Belg., Liège.* Annales de la Société géologique de Belgique. Liège.
- Ann. Soc. géol. Nord.* Annales de la Société géologique du Nord. Lille.

- Ann. Soc. R. zool. & malac. Belg.* Annales de la Société Royale zoologique et malacologique de Belgique. Brussels.
- Ann. Univ. toscane.* Annali delle Università toscane. Pisa.
- Anuar. R. Acad. Cienc. Madrid.* Anuario de la Real Academia de Ciencias exactas, físicas y naturales. Madrid.
- Anz. k. Akad. Wissensch. Wien.* Anzeiger der kaiserlichen Akademie der Wissenschaften. Vienna.
- Arch. f. Anthr. & Geol. Schleswig-Holsteins.* Archiv für Anthropologie und Geologie Schleswig-Holsteins und der benachbarten Gebiete. Kiel.
- Arch. Naturk. Liv- Ehst- u. Kurlands, Dorpat.* Archiv für die Naturkunde Liv- Ehst- und Kurlands. Naturforscher-Gesellschaft. Dorpat (Jurjew).
- Arch. naturw. Landesd. Böhmen.* Archiv der naturwissenschaftlichen Landesdurchforschung von Böhmen. Prague.
- Arch. néerland. Sci.* Archives des Sciences exactes et naturelles, publiées par la Société hollandaise des Sciences à Harlem. The Hague.
- Ark. f. (Bot.; Kemi Min. & Geol.; or Zool.) K. svenska Vet.-Akad.* Arkiv för Botanik (&c.) utgivet af K. svenska Vetenskaps-Akademien. Stockholm.
- Athenæum.* Athenæum Journal. London.
- Atti R. Acc. Lincei, Rendic.* Atti della Reale Accademia dei Lincei, Rendiconti. Rome.
- Atti R. Acc. Sci. Napoli.* Atti della Reale Accademia delle Scienze fisiche e matematiche. Naples.
- Atti R. Acc. Sci. Padova.* Atti e Memorie della Reale Accademia di Scienze, Lettere ed Arti in Padova. Padua.
- Atti R. Acc. Sci. Torino.* Atti della Reale Accademia delle Scienze di Torino. Turin.
- Atti R. Univ. Genova.* Atti della Reale Università di Genova. Genoa.
- Atti Soc. tosc. Sci. nat.* Atti della Società toscana di Scienze naturali. Pisa.
- Augustana Library Publ.* Augustana Library Publication. Rock Island (Ill.).
- Beitr. geol. Schweiz.* Beiträge zur Geologie der Schweiz. (Schweizerische geotechnische Kommission.) Berne.
- Beitr. Geophys. Leipzig.* Beiträge zur Geophysik. Leipzig.
- Beitr. Naturk. Preussens, K. phys.-ökon. Gesellsch. Königsberg.* Beiträge zur Naturkunde Preussens. Königliche physikalisch-ökonomische Gesellschaft. Königsberg.
- Beitr. Paläont. Österr.-Ung.* Beiträge zur Paläontologie und Geologie (Österreich-Ungarns und des Orients. Vienna.
- Ber. k.-sächs. Gesellsch. Wissensch. Leipzig.* Bericht der königlich-sächsischen Gesellschaft der Wissenschaften. Leipzig.
- Ber. naturf. Gesellsch., Freiburg i. B.* Berichte der naturforschenden Gesellschaft. Freiburg i. B.
- Ber. oberhess. Gesellsch. Nat.- Heilk.* Bericht der oberhessischen Gesellschaft für Natur- und Heilkunde. Giessen.
- Ber. oberrhein. geol. Ver.* Bericht über die Versammlungen des oberrheinischen geologischen Vereins. Stuttgart.
- Ber. Senckenb. naturf. Gesellsch.* Bericht der Senckenbergischen naturforschenden Gesellschaft. Frankfurt-on-the-Main.
- Berg- hütt. Jahrb. Wien.* Berg- und hüttenmännisches Jahrbuch der kaiserlich-königlichen Bergakademien zu Leoben und Příbram und der königlich-ungarischen Bergakademie zu Schemnitz. Vienna.
- Bergens Mus. Aarb.* Bergens Museums Aarbog (or Aarberetning). Bergen.
- Bibl. geol., Serv. géol. Belg.* Bibliographica geologica, Service géologique de Belgique. Brussels.
- Bihang k. svenska Vet.-Akad. Handl.* Bihang till kongliga svenska Vetenskaps-Akademien's Handlingar. Stockholm.
- Bol. Acad. Nac. Cordoba.* Boletín de la Academia Nacional de Ciencias en Córdoba. Buenos Aires.
- Bol. Com. Mapa geol. España.* Boletín de la Comisión del Mapa geológico de España. Madrid.
- Bol. Comm. geogr. e geol. S. Paulo.* Boletim da Comissão geographica e geologica do Estado de São Paulo. São Paulo (Brazil).
- Bol. Ing. Minas, Perú.* Boletín del Cuerpo de Ingenieros de Minas del Perú. Lima.
- Bol. Inst. geogr. Argent.* Boletín del Instituto geográfico Argentino. Buenos Aires.
- Bol. Inst. geol. México.* Boletín del Instituto geológico de México. Mexico.
- Boll. R. Com. geol. Ital.* Bollettino del Reale Comitato geologico d'Italia. Rome.
- Bol. Soc. geogr. Lima.* Boletín de la Sociedad geográfica de Lima. Lima.
- Bol. Soc. Geogr. Lisboa.* Boletim da Sociedade de Geographia de Lisboa. Lisbon.

- Boll. Soc. geol. ital.* Bollettino della Società geologica italiana. Rome.
- Bol. Soc. Nac. Minería, Santiago.* Boletín de la Sociedad Nacional de Minería. Santiago de Chile.
- Brit. Assoc. Adv. Sci., Circulars Seismolog. Committee.* British Association for the Advancement of Science. Circulars of the Seismological Committee. London.
- Bull. Acad. Imp. Sci. St. Pétersb.* Bulletin de l'Académie Impériale des Sciences. St. Petersburg.
- Bull. Acad. Roy. Belg.* Bulletins de l'Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique. Brussels.
- Bull. Am. Mus. Nat. Hist., N.Y.* Bulletin of the American Museum of Natural History. New York.
- Bull. Assoc. franç. Av. Sci.* Bulletin de l'Association française pour l'Avancement des Sciences. Paris.
- Bull. Buffalo Soc. Nat. Sci.* Bulletin of the Buffalo Society of Natural Sciences. Buffalo (N.J.).
- Bull. Bur. Mines, B.C.* Bulletin of the Provincial Bureau of Mines, British Columbia. Victoria (B.C.).
- Bull. Bur. Mines, Canada.* Bulletin of the Bureau of Mines, Canada. Ottawa.
- Bull. Cal. State Mining Bur.* Bulletin of the Californian State Mining Bureau. San Francisco.
- Bull. Chicago Acad. Geol. Surv.* Bulletin of the Chicago Academy of Science, Geological and Natural History Survey. Chicago (Ill.).
- Bull. Com. géol. Russie.* Bulletins du Comité géologique. St. Petersburg.
- Bull. Comm. géol. Finlande.* Bulletin de la Commission géologique de Finlande. Helsingfors.
- Bull. Conn. Geol. & Nat. Hist. Surv.* Bulletin of the Connecticut State Geological and Natural History Survey. Hartford (Conn.).
- Bull. Geol. Inst. Univ. Upsala.* Bulletin of the Geological Institution of the University of Upsala. Upsala.
- Bull. Geol. Soc. Am.* Bulletin of the Geological Society of America. Rochester (N.Y.).
- Bull. Geol. Surv. Alabama.* Bulletin of the Geological Survey of Alabama. University & Montgomery (Ala.).
- Bull. Geol. Surv. Georgia.* Bulletin of the Geological Survey of Georgia. Atlanta (Ga.).
- Bull. Geol. Surv. Ohio.* Bulletin of the Geological Survey of Ohio. Columbus (Ohio).
- Bull. Geol. Surv. Queensl.* Bulletin of the Geological Survey of Queensland (Department of Mines). Brisbane.
- Bull. Geol. Surv. Victoria.* Bulletin of the Geological Survey of Victoria. Melbourne.
- Bull. Geol. Surv. W. Austr.* Bulletin of the Geological Survey of Western Australia. Perth (W. Austr.).
- Bull. Geol. Univ. Cal.* Bulletin of the Department of Geology, University of California. Berkeley (Cal.).
- Bull. Imp. Earthq. Comm. Tokyo.* Bulletin of the Imperial Earthquake Commission. Tokyo.
- Bull. Imp. Inst.* Bulletin of the Imperial Institute. London.
- Bull. Intern. Acad. Sci. Cracovie.* Bulletin International de l'Académie des Sciences. Cracow.
- Bull. Ky. Geol. Surv.* Bulletin of the Kentucky Geological Survey. Lexington (Ky.).
- Bull. Mus. Comp. Zool.* Bulletin of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
- Bull. Mus. Hist. nat. Paris.* Bulletin du Muséum d'Histoire naturelle. Paris.
- Bull. Mysore Geol. Dep.* Bulletin of the Mysore Geological Department. Bangalore.
- Bull. Nat. Hist. Soc. New Brunswick.* Bulletin of the Natural History Society of New Brunswick. St. John (N.B.).
- Bull. N.Y. State Mus.* Bulletin of the New York State Museum. Albany (N.Y.).
- Bull. N.Z. Geol. Surv.* Bulletin of the New Zealand Geological Survey. Wellington (N.Z.).
- Bull. Phil. Soc. Wash.* Bulletin of the Philosophical Society. Washington (D.C.).
- Bull. Soc. belge Géol., Brux.* Bulletin de la Société belge de Géologie, de Paléontologie et d'Hydrologie. Brussels.
- Bull. Soc. franç. Min.* Bulletin de la Société française de Minéralogie. Paris.
- Bull. Soc. géol. France.* Bulletin de la Société géologique de France. Paris.
- Bull. Soc. géol. Norm.* Bulletin de la Société géologique de Normandie. Havre.

- Bull. Soc. Hist. nat. Savoie.* Bulletin de la Société d'Histoire naturelle de Savoie. Chambéry.
- Bull. Soc. Hist. nat. Toulouse.* Bulletin de la Société d'Histoire naturelle de Toulouse. Toulouse.
- Bull. Soc. Imp. Nat. Moscou.* Bulletin de la Société Impériale des Naturalistes de Moscou. Moscow.
- Bull. Soc. Linn. Norm.* Bulletin de la Société Linnéenne de Normandie. Caen.
- Bull. Soc. oural. Sci. nat.* Bulletin de la Société ouralienne d'Amateurs des Sciences naturelles. Ekaterinburg.
- Bull. Soc. portugaise Sci. nat.* Bulletin de la Société portugaise de Sciences naturelles. Lisbon.
- Bull. Soc. R. malac. Belg.* See *Ann. Soc. R. zool. & malac. Belg.*
- Bull. Soc. Sci. et méd. de l'Ouest, Rennes.* Bulletin de la Société scientifique et médicale de l'Ouest. Rennes.
- Bull. Soc. Spéol. Paris.* See *Speunca.*
- Bull. Soc. vaud. Sci. nat.* Bulletin de la Société vaudoise des Sciences naturelles. Lausanne.
- Bull. U.S. Geol. Surv.* Bulletin of the United States Geological Survey. Washington.
- Bull. Univ. Kansas.* See *Sci. Bull. Univ. Kansas.*
- Bull. U.S. Nat. Mus.* Bulletin of the United States National Museum. Washington (D.C.).
- Bull. Univ. Oregon.* Bulletin of the University of Oregon. Eugen (Or.).
- Bull. Univ. Wisconsin.* Bulletin of the University of Wisconsin. Madison (Wis.).
- Bull. Wisc. Geol. & Nat. Hist. Surv.* Bulletin of the Wisconsin Geological and Natural History Survey. Madison (Wis.).
- Canad. Rec. Sci.* Canadian Record of Science. (Natural History Society of Montreal.) Montreal.
- Carnegie Inst. Wash., Publ.* Carnegie Institution, Washington. Publications. Washington (D.C.).
- Centralbl. f. Min.* Centralblatt für Mineralogie, Geologie und Paläontologie. Stuttgart.
- Chem. News.* Chemical News. London.
- Cold Spring Harbor Monogr.* Cold Spring Harbor Monographs. Brooklyn (N.Y.).
- Coll. Guard.* Colliery Guardian. London.
- Colo. Coll. Publ.* Colorado College Publications. Colorado Springs (Colo.).
- Com. Mus. Nac. Buenos Aires.* Comunicaciones del Museo Nacional de Buenos Aires. Buenos Aires.
- Comm. Commiss. Serv. geol. Portugal.* Communicações da Comissão do Serviço geológico de Portugal. Lisbon.
- Comm. geogr. e geol. S. Paulo.* Comissão geographica e geologica de São Paulo. São Paulo.
- C. R. Acad. Sci. Paris.* Comptes-rendus hebdomadaires des Séances de l'Académie des Sciences. Paris.
- C. R. Assoc. franç. Av. Sci.* Comptes-rendus de l'Association française pour l'Avancement des Sciences. Paris.
- C. R. Congrès géol. internat.* Comptes-rendus du Congrès géologique international. Vienna.
- C. R. Soc. helv. Sci. nat.* Compte-rendu des Travaux de la Société helvétique des Sciences naturelles. Geneva.
- Dan. geol. Undersög.* Danmarks geologiska Undersögelse. Copenhagen.
- Denkschr. k. Akad. Wissensch. Wien.* Denkschriften der kaiserlichen Akademie der Wissenschaften: Mathematisch-naturwissenschaftliche Classe. Vienna.
- Eclogæ Geol. Helv.* Eclogæ Geologicæ Helvetiæ. Lausanne.
- Econ. Geol.* Economic Geology. Lancaster (Pa.).
- Econ. Papers, U.S. Geol. Surv.* Economic Papers, United States Geological Survey. Washington.
- Econ. Proc. R. Dublin Soc.* Economic Proceedings of the Royal Dublin Society. Dublin.
- Egypt. Surv. Dep.* Egypt. Survey Department & Geological Survey. Cairo.
- Erläut. geol. Karte Baden.* Erläuterungen zur geologischen Specialkarte des Grossherzogthums Baden. Heidelberg.
- Essex Nat.* Essex Naturalist, being the Journal of the Essex Field-Club. Stratford.
- Expl. géol. Rég. aurif. Sibérie.* Explorations géologiques dans les Régions aurifères de la Sibérie. St. Petersburg.
- Fennia.* Fennia. Bulletin de la Société de Géographie de Finlande. Helsingfors.

- Field Columbian Mus.* Field Columbian Museum Publications. Chicago (Ill.).
- Földt. Közl.* Földtani Közlöny. [Geological Magazine.] Budapest.
- Gen. Rep. Geol. Surv. India.* General Report on the Work carried on by the Geological Survey of India. Calcutta.
- Geogn. Jahresh.* München. Geognostische Jahreshefte. Munich.
- Geogr. Journ.* Geographical Journal (Royal Geographical Society). London.
- Geol. & Nat. Hist. Surv. Minn.* Geological and Natural History Survey of Minnesota. St. Paul (Minn.).
- Geol. Fören. Stockh. Förh.* Geologiska Föreningens i Stockholm Förhandlingar. Stockholm.
- Geol. Karte Baden.* Geologische Spezialkarte des Grossherzogthums Baden. (Grossherzoglich badische geologische Landesanstalt.) Heidelberg.
- Geol. Mag.* Geological Magazine. London.
- Geol. Surv. Canada. Contr. Canad. Palæont.* Geological Survey of Canada. Contributions to Canadian Palæontology. Ottawa.
- Geol. Surv. Mich. Rep.* Geological Survey of Michigan. Reports. Lansing (Mich.).
- Geol. Surv. Queensl., Publ.* Geological Survey of Queensland: Publications. Brisbane. See also *Ann. Rep. Dep. Mines, Queensl.*
- Geol. u. Palæont. Abh., Jena.* Geologische und Palæontologische Abhandlungen. Jena.
- Giorn. Geol. prat., Perugia.* Giornale di Geologia pratica. Perugia.
- 'Glasnik' Soc. Hist. nat. Croatica.* Journal of the Natural History Society of Croatia. Agram.
- Great Britain & Ireland. Home Office. Mines & Quarries.* General Report and Statistics. London.
- Hist. Berwicks. Nat. Club.* History of the Berwickshire Naturalists' Club. Alnwick.
- Hull Mus. Publ.* Hull Museum Publications. Hull.
- Indian Engin.* Indian Engineering. Calcutta.
- Internat. Cat. Sci. Lit.* International Catalogue of Scientific Literature. London.
- Iowa Geol. Surv.* Iowa Geological Survey. Des Moines (Iowa).
- Irish Nat.* Irish Naturalist. Dublin.
- Jaarb. Mijnw. Ned. O.-Ind.* Jaarboek van het Mijnwezen in Nederlandsch Oost-Indië. Amsterdam.
- Jahrb. f. Berg- u. Hüttenw. Sachsen.* Jahrbuch für das Berg- und Hüttenwesen im Königreiche Sachsen. Freiberg.
- Jahrb. k.-k. geol. Reichsanst.* Jahrbuch der kaiserlich-königlichen geologischen Reichsanstalt. Vienna.
- Jahrb. k.-preuss. geol. Landesanst.* Jahrbuch der königlich-preussischen geologischen Landesanstalt. Berlin.
- Jahrb. k.-ung. geol. Anst.* Jahrbuch der königlich-ungarischen geologischen Anstalt. Budapest.
- Jahrb. nassauisch. Ver. f. Naturk.* Jahrbücher des nassauischen Vereins für Naturkunde. Wiesbaden.
- Jahrb. Schw.-Alpenclub.* Jahrbuch des Schweizer-Alpenclubs. Bern.
- Jahresb. k.-ung. geol. Anst.* Jahresbericht der königlich-ungarischen geologischen Anstalt. Budapest.
- Jahresb. naturh. Gesellsch. Nürnberg.* Jahresbericht der naturhistorischen Gesellschaft. Nürnberg.
- Jahresb. Ver. Naturw. Braunschweig.* Jahresbericht des Vereins für Naturwissenschaft zu Braunschweig. Brunswick.
- Jahresh. Ver. Naturk. Württ.* Jahreshefte des Vereins für vaterländische Naturkunde in Württemberg. Stuttgart.
- Journ. Acad. Nat. Sci. Philad.* Journal of the Academy of Natural Sciences, Philadelphia.
- Journ. Asiat. Soc. Bengal.* Journal and Proceedings of the Asiatic Society of Bengal. Calcutta.
- Journ. Bombay Branch R. Asiat. Soc.* Journal of the Bombay Branch of the Royal Asiatic Society. Bombay.
- Journ. Canad. Mining Inst.* Journal of the Canadian Mining Institute. Ottawa.
- Journ. Ceylon Branch R. Asiat. Soc.* Journal of the Ceylon Branch of the Royal Asiatic Society. Colombo.
- Journ. Chem. Soc.* Journal of the Chemical Society. London.
- Journ. China Branch R. Asiat. Soc.* Journal of the China Branch of the Royal Asiatic Society. Shanghai.
- Journ. Cinc. Soc. Nat. Hist.* Journal of the Cincinnati Society of Natural History. Cincinnati (Ohio).

- Journ. Coll. Sci. Tokyo.* Journal of the College of Science, Imperial University. Tokyo.
- Journ. Conch., Paris.* Journal de Conchyliologie. Paris.
- Journ. East India Assoc.* Journal of the East India Association. London.
- Journ. Geol., Chicago.* Journal of Geology. Chicago (Ill.).
- Journ. Iron & Steel Inst.* Journal of the Iron and Steel Institute. London.
- Journ. Linn. Soc.* Journal of the Linnean Society. London.
- Journ. Northants Nat. Hist. Soc.* Journal of the Northamptonshire Natural History Society and Field-Club. Northampton.
- Journ. R. Agric. Soc.* Journal of the Royal Agricultural Society. London.
- Journ. R. Inst. Cornwall.* Journal of the Royal Institution of Cornwall. Truro.
- Journ. R. Micr. Soc.* Journal of the Royal Microscopical Society. London.
- Journ. Roy. Soc. N.S.W.* Journal and Proceedings of the Royal Society of New South Wales. Sydney.
- Journ. Soc. Arts.* Journal of the Royal Society of Arts. London.
- Journ. Vict. Inst. London.* Journal of the Transactions of the Victoria Institute. London.
- Journ. & Proc. Hamilton Sci. Assoc. (Canada).* Journal and Proceedings of the Hamilton Scientific Association. Hamilton (Canada).
- K. danske Vidensk.-Selsk. Afh.* Kongelige danske Videnskabernes-Selskabs naturvidenskabelig og matematisk Afhandling. Copenhagen.
- K. danske Vidensk. Selsk. Skrift.* Kongelige danske Videnskabernes Selskabs Skrifter. Copenhagen.
- K. svenska Vet.-Akad. Årsbok.* Kongliga svenska Vetenskaps-Akademiens Årsbok. Stockholm.
- K. svenska Vet.-Akad. Handl.* Kongliga svenska Vetenskaps-Akademiens Handlingar. Stockholm.
- Kansas Univ. Sci. Bull.* See *Sci. Bull. Univ. Kansas.*
- Kentucky Geol. Surv.* Kentucky Geological Survey. Report of Progress. Lexington (Ky.). (See also *Bull. Ky. Geol. Surv.*)
- Knowledge.* Knowledge. London.
- Lond. Edinb. Dubl. Phil. Mag.* London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science. London.
- Magy. Kir. Földtani Intézet.* See *Jahrb. k.-ung. geol. Anst.*
- Maryland Geol. Surv.* Maryland Geological Survey. Baltimore (Md.).
- Matér. Carte géol. Suisse.* Matériaux pour la Carte géologique de la Suisse. Commission géologique. Berne.
- Mater. Geol. Russ.* Materialien zur Geologie Russlands. Herausgegeben von der kaiserlichen mineralogischen Gesellschaft. St. Petersburg.
- Meddel. dansk geol. Foren.* Meddelelser fra dansk geologisk Forening. Copenhagen.
- Meddel. geogr. Fören. Finland.* Meddelanden af geografiska Föreningen i Finland. Helsingfors.
- Meddel. Grönland.* Meddelelser om Grönland, udgivne af Commissionen for Ledelsen af de Geologiske og Geographiske Undersøgelser i Grönland. Copenhagen.
- Meddel. Upsala Univ. Min.-geol. Inst.* Meddelanden från Upsala Universitets Mineralogisk-geologiska Institut. Stockholm.
- Mém. Acad. Imp. Sci. St. Pétersb.* Mémoires de l'Académie Impériale des Sciences. St. Petersburg.
- Mém. Acad. Roy. Belg.* Mémoires de l'Académie Royale de Belgique. Brussels.
- Mém. Acad. Sci. Dijon.* Mémoires de l'Académie des Sciences, Arts, et Belles-Lettres de Dijon.
- Mém. Acad. Stanislas.* Mémoires de l'Académie de Stanislas. Nancy.
- Mem. Am. Acad. Arts & Sci.* Memoirs of the American Academy of Arts and Sciences. Cambridge (Mass.).
- Mem. Am. Mus. Nat. Hist., N.Y.* Memoirs of the American Museum of Natural History. New York.
- Mem. Asiat. Soc. Bengal.* Memoirs of the Asiatic Society of Bengal. Calcutta.
- Mem. Carnegie Mus., Pittsb.* Memoirs of the Carnegie Museum. Pittsburg (Pa.).
- Mem. Carta geol. Ital.* Memorie descrittive della Carta geologica d'Italia. (R. Ufficio geologico.) Rome.
- Mém. Com. géol. Russie.* Mémoires du Comité géologique. St. Petersburg.
- Mem. Geol. Surv. England & Wales.* Memoirs of the Geological Survey of England and Wales. London.
- Mem. Geol. Surv. India. Palæont. Indica.* Memoirs of the Geological Survey of India. Palæontographica Indica. Calcutta.
- Mem. Geol. Surv. Ireland.* Memoirs of the Geological Survey of Ireland. Dublin.

- Mem. Geol. Surv. N.S.W.* Memoirs of the Geological Survey of New South Wales. Sydney.
- Mem. Geol. Surv. N.Y.* Memoirs of the Geological Survey of the State of New York. State Museum. University of the State of New York. Albany (N.Y.).
- Mem. Geol. Surv. Scotland.* Memoirs of the Geological Survey of Scotland. Edinburgh.
- Mem. Geol. Surv. Transvaal.* Memoirs of the Geological Survey of the Transvaal. Pretoria.
- Mem. Geol. Surv. U.K.* Memoirs of the Geological Survey of the United Kingdom. London, &c.
- Mem. Geol. Surv. Victoria.* Memoirs of the Geological Survey of Victoria. Melbourne.
- Mem. Manch. Lit. Phil. Soc.* Memoirs and Proceedings of the Manchester Literary and Philosophical Society. Manchester.
- Mem. Mus. Comp. Zool.* Memoirs of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
- Mém. Mus. R. Hist. nat. Belg.* Mémoires du Musée Royal d'Histoire naturelle de Belgique. Brussels.
- Mem. Mysore Geol. Dep.* Memoirs of the Mysore Geological Department. Bangalore.
- Mem. Nat. Mus., Melbourne.* Memoirs of the National Museum. Melbourne.
- Mem. N.Y. Acad. Sci.* Memoirs of the New York Academy of Sciences. New York.
- Mem. R. Acad. Cienc., Madrid.* Memorias de la Real Academia de Ciencias exactas, físicas y naturales. Madrid.
- Mem. R. Acc. Lincei.* Memorie della Reale Accademia dei Lincei. Rome.
- Mem. R. Acc. Sci. Torino.* Memorie della Reale Accademia delle Scienze. Turin.
- Mem. R. Astron. Soc.* Memoirs of the Royal Astronomical Society. London.
- Mem. R. Ist. lomb.* Memorie del Reale Istituto lombardo di Scienze e Lettere. Milan.
- Mem. R. Soc. S. Austr.* Memoirs of the Royal Society of South Australia. Adelaide.
- Mem. Soc. cient. 'Ant. Alzate.'* Memorias y Revista de la Sociedad científica 'Antonio Alzate.' Mexico.
- Mém. Soc. géol. France (Paléont.).* Mémoires de la Société géologique de France. Paléontologie. Paris.
- Mém. Soc. Linn. Norm.* Mémoires de la Société Linnéenne de Normandie. Caen.
- Mém. Soc. Nat. Kiev.* Mémoires de la Société des Naturalistes. Kiev.
- Mém. Soc. paléont. suisse.* Mémoires de la Société paléontologique suisse. Geneva, &c.
- Mém. Soc. Phys. & Hist. nat. Genève.* Mémoires de la Société de Physique et d'Histoire naturelle de Genève. Geneva.
- Mém. Soc. R. malac. Belg.* See *Ann. Soc. R. zool. & malac. Belg.*
- Mém. Soc. Roy. Sci. Liège.* Mémoires de la Société Royale des Sciences. Liège.
- Mém. Soc. Spéléol., Paris.* See *Spelunca*.
- Min. Mag.* The Mineralogical Magazine and Journal of the Mineralogical Society. London.
- Min. petr. Mitth.* Mineralogische und petrographische Mittheilungen. Vienna.
- Mines & Minerals, Scranton.* Mines and Minerals. Scranton (Pa.).
- Mining Journ.* Mining Journal. Railway and Commercial Gazette. London.
- Minutes of Proc. Inst. C.E.* Minutes of Proceedings of the Institution of Civil Engineers. London.
- Missouri Bur. Geol. & Mines.* Missouri Bureau of Geology and Mines. Jefferson City (Mo.).
- Mitth. badisch. geol. Landesanst.* Mittheilungen der grossherzoglich badischen geologischen Landesanstalt. Heidelberg.
- Mitth. Erdbeben-Komm. k. Akad. Wissensch., Wien.* Mittheilungen der Erdbeben-Kommission der kaiserlichen Akademie der Wissenschaften, Wien. Vienna.
- Mitth. geol. Landesanst. Elsass-Lothr.* Mittheilungen der geologischen Landesanstalt von Elsass-Lothringen. Strasburg.
- Mitth. Jahrb. k.-ung. geol. Anst.* Mittheilungen aus dem Jahrbuche der königlich-ungarischen geologischen Anstalt. Budapest.
- Mitth. Min. Inst. Kiel.* Mittheilungen aus dem Mineralogischen Institut der Universität. Kiel.
- Mitth. naturf. Gesellsch. Bern.* Mittheilungen der naturforschenden Gesellschaft. Berne.
- Mitth. nat. Ver. Steiermark.* Mittheilungen des naturwissenschaftlichen Vereins für Steiermark. Graz.

- Mitth. Ver. Erdk. Dresden.* Mittheilungen des Vereins für Erdkunde. Dresden.
- Monatsb. deutsch. geol. Gesellsch.* Monatsberichte der deutschen geologischen Gesellschaft. Berlin. See also *Zeitschr.*
- Monogr. Palæont. Soc.* Monographs of the Palæontographical Society. London.
- Monogr. Ray Soc.* Monographs of the Ray Society. London.
- Monogr. U.S. Geol. Surv.* Monographs of the United States Geological Survey. Washington (D.C.).
- Mus. Lundii Afh.* E Museo Lundii. Afhandlinger. Copenhagen.
- Mysore Geol. Dep.* Mysore Geological Department. Bangalore.
- Natal Rep. Mining.* Natal Report on the Mining Industry of Natal. Pietermaritzburg.
- Naturalist, Hull.* The Naturalist. Hull.
- Nature.* Nature. London.
- Naturen, Bergen.* Naturen. Bergen.
- Nat. Verh. Holland. Maat. Wet. Haarlem.* Natuurkundige Verhandelingen van de Hollandsche Maatschappij der Wetenschappen. Haarlem.
- Neue Denkschr. schweiz. Gesellsch. Naturw.* Neue Denkschriften der allgemeinen schweizerischen Gesellschaft für die gesammten Naturwissenschaften. Basel, &c.
- N. J. f. Min.* Neues Jahrbuch für Mineralogie, Geologie und Paläontologie. Stuttgart.
- N.S.W. Dep. Mines, Min. Resources.* New South Wales Department of Mines. Mineral Resources. Sydney.
- Norsk geol. Tidsskr.* Norsk geologisk Tidsskrift, udgivet af Norsk geologisk Forening. Christiania.
- Notice expl. Carte géol. Suisse.* Notice explicative de la Carte géologique de la Suisse. Berne.
- Notizbl. Ver. f. Erdk. Darmstadt.* Notizblatt des Vereins für Erdkunde und der grossherzoglichen hessischen geologischen Landesanstalt. Darmstadt.
- Nov. Arch. Mus. Hist. nat. Paris.* Nouvelles Archives du Muséum d'Histoire naturelle. Paris.
- Nouv. Mém. Soc. Imp. nat. Moscou.* Nouveaux Mémoires de la Société Impériale des Naturalistes. Moscow.
- Nova Acta Acad. Cæs. Leop.-Car.* Nova Acta Academiae Cæsareæ Leopoldino-Carolinæ Germanicæ Naturæ Curiosorum. Halle. See also *Abh. k. Leop.-Car. deutsch. Akad. Naturf.*
- Nyt Magazin.* Nyt Magazin for Naturvidenskaberne. Christiania.
- Occ. Papers Boston Nat. Hist. Soc.* Occasional Papers of the Boston Natural History Society. Boston (Mass.).
- Öfvers. K. Vet.-Akad. Förh.* Öfversigt af Kongliga Vetenskaps-Akademiens Förhandlingar. Stockholm.
- Ottawa Nat.* Ottawa Naturalist. Ottawa.
- Overs. K. danske Vidensk.-Selsk. Forh.* Oversigt over det Kongelige danske Videnskabernes-Selskabs Forhandlingar. Copenhagen.
- Paläont. Abh. Jena.* Paläontologische Abhandlungen. Jena.
- Palæont. Univ.* Palæontologia Universalis. 8vo. Paris.
- Palæontographica.* Palæontographica. Stuttgart.
- Palæontographica italica.* Palæontographica italica. Pisa.
- Papers & Proc. Roy. Soc. Tasm.* Papers and Proceedings of the Royal Society of Tasmania. Hobart.
- Papers & Rep. Min. & Mining, N.Z.* Papers and Reports relating to Minerals and Mining, N.Z. Wellington (N.Z.).
- Parerg. Inst. geol. Mex.* Parergones del Instituto geológico de México. Mexico.
- Perak Gov. Gaz.* Perak Government Gazette. Taiping.
- Peterm. Mitth.* Petermann's Mittheilungen. Gotha.
- Phil. Trans. Roy. Soc.* Philosophical Transactions of the Royal Society. London.
- Photogr. Journ.* Photographic Journal. (Royal Photographic Society.) London.
- Princeton Univ. Rep.* Princeton University. Reports of Expeditions. Princeton (N.J.).
- Proc. Acad. Nat. Sci. Philad.* Proceedings of the Academy of Natural Sciences. Philadelphia (Pa.).
- Proc. Am. Acad. Arts & Sci.* Proceedings of the American Academy of Arts and Sciences. Boston (Mass.).
- Proc. Am. Phil. Soc.* Proceedings of the American Philosophical Society. Philadelphia (Pa.).
- Proc. Asiatic Soc. Bengal.* Proceedings of the Asiatic Society of Bengal. Calcutta.

- Proc. Austral. Inst. M. E.* Proceedings of the Australasian Institute of Mining Engineers. Melbourne (Vict.).
- Proc. Bath Nat. Hist. F.-C.* Proceedings of the Bath Natural History and Antiquarian Field-Club. Bath.
- Proc. Belfast Nat. F.-C.* Proceedings of the Belfast Naturalists' Field-Club. Belfast.
- Proc. Biol. Soc. Washington.* Proceedings of the Biological Society of Washington. Washington (D.C.).
- Proc. Boston Soc. Nat. Hist.* Proceedings of the Boston Society of Natural History. Boston (Mass.).
- Proc. Bristol Nat. Soc.* Proceedings of the Bristol Naturalists' Society. Bristol.
- Proc. Cambridge Phil. Soc.* Proceedings of the Cambridge Philosophical Society. Cambridge.
- Proc. Canad. Inst.* Proceedings of the Canadian Institute. Toronto.
- Proc. Chem. Soc.* Proceedings of the Chemical Society. London.
- Proc. Colo. Sci. Soc.* Proceedings of the Colorado Scientific Society. Denver (Colo.).
- Proc. Cotteswold Nat. F.-C.* Proceedings of the Cotteswold Naturalists' Field-Club. Gloucester.
- Proc. Davenport Acad. Nat. Sci.* Proceedings of the Davenport Academy of Natural Science. Davenport (Iowa).
- Proc. Dorset Nat. Hist. F.-C.* Proceedings of the Dorset Natural History and Antiquarian Field-Club. Dorchester.
- Proc. Geol. Assoc.* Proceedings of the Geologists' Association. London.
- Proc. Geol. Soc. S.A.* Proceedings of the Geological Society of South Africa. Johannesburg.
- Proc. Indiana Acad. Sci.* Proceedings of the Indiana Academy of Sciences. Indianapolis.
- Proc. I. of Man Nat. Hist. Soc.* Proceedings of the Isle of Man Natural History and Antiquarian Society. Douglas.
- Proc. Linn. Soc.* Proceedings of the Linnean Society. London.
- Proc. Linn. Soc. N.S.W.* Proceedings of the Linnean Society of New South Wales. Sydney.
- Proc. Lit. Phil. Soc. Liverp.* Proceedings of the Literary and Philosophical Society of Liverpool. Liverpool.
- Proc. Liverp. Geol. Soc.* Proceedings of the Liverpool Geological Society. Liverpool.
- Proc. Malacol. Soc.* Proceedings of the Malacological Society. London.
- Proc. Midland Inst. M. E.* Proceedings of the Midland Institute of Mining, Civil, and Mechanical Engineers. Newcastle-upon-Tyne.
- Proc. Rhodesia Sci. Assoc.* Proceedings of the Rhodesia Scientific Association. Bulawayo.
- Proc. Roy. Inst. Gt. B.* Proceedings of the Royal Institution of Great Britain. London.
- Proc. Roy. Irish Acad.* Proceedings of the Royal Irish Academy. Dublin.
- Proc. Roy. Phys. Soc. Edinb.* Proceedings of the Royal Physical Society of Edinburgh. Edinburgh.
- Proc. Roy. Soc.* Proceedings of the Royal Society. London.
- Proc. Roy. Soc. Edinb.* Proceedings of the Royal Society of Edinburgh. Edinburgh.
- Proc. Roy. Soc. Tasm.* Proceedings of the Royal Society of Tasmania. Hobart.
- See *Papers & Proc.*
- Proc. Roy. Soc. Victoria.* Proceedings of the Royal Society of Victoria. Melbourne.
- Proc. Soc. Bibl. Arch.* Proceedings of the Society of Biblical Archaeology. London.
- Proc. S. Wales Inst. Engin.* Proceedings of the South Wales Institute of Engineers. Cardiff.
- Proc. U.S. Nat. Mus.* Proceedings of the United States National Museum. Washington (D.C.).
- Proc. Univ. Durham Phil. Soc.* Proceedings of the University of Durham Philosophical Society. Newcastle-upon-Tyne.
- Proc.-verb. Soc. R. malac. Belg.* Procès-verbaux des Séances de la Société Royale malacologique de Belgique. Brussels.
- Proc. Wash. Acad. Sci.* Proceedings of the Washington Academy of Sciences. Washington (D.C.).
- Proc. Yorks. Geol. Soc.* Proceedings of the Yorkshire Geological Society. Halifax.
- Proc. Zool. Soc. London.* Proceedings of the Zoological Society. London.

- Proc. & Trans. Croydon Microsc. & Nat. Hist. Soc.* Proceedings and Transactions of the Croydon Microscopical and Natural History Society. Croydon.
- Proc. & Trans. N.S. Inst. Sci.* Proceedings and Transactions of the Nova Scotia Institute of Science. Halifax (N.S.).
- Proc. & Trans. Roy. Soc. Canada.* Proceedings and Transactions of the Royal Society of Canada. Ottawa.
- Prof. Papers, U.S. Geol. Surv.* Professional Papers, United States Geological Survey. Washington (D.C.).
- Publ. Carnegie Mus.* Publications of the Carnegie Museum. Pittsburg (Pa.).
- Publ. Earthq. Comm. Tokyo.* Publications of the Earthquake Investigations Committee in Foreign Languages. Tokyo.
- Q. J. G. S.* Quarterly Journal of the Geological Society. London.
- Q. J. R. Met. Soc.* Quarterly Journal of the Royal Meteorological Society. London.
- Quarry.* The Quarry. London.
- Ray Soc.* See *Monographs*.
- Rec. Geol. Surv. India.* Records of the Geological Survey of India. Calcutta.
- Rec. Geol. Surv. N.S.W.* Records of the Geological Survey of New South Wales. Sydney.
- Rec. Geol. Surv. Victoria.* Records of the Geological Survey of Victoria. Melbourne.
- Rec. London & W. Country Chamber of Mines.* Record of the London and West-Country Chamber of Mines. London.
- Rec. Mysore Geol. Dep.* Records of the Mysore Geological Department. Bangalore.
- Rendic. e Mem. R. Acc. Sci. Acireale.* Rendiconti e Memorie della Reale Accademia di Scienze, Lettere ed Arti. Acireale.
- Rendic. R. Acc. Sci. Napoli.* Rendiconti della Reale Accademia delle Scienze fisiche e matematiche. Naples.
- Rendic. R. Ist. lomb.* Reale Istituto lombardo di Scienze e Lettere. Rendiconti. Milan.
- Rep. Austral. Assoc. Adv. Sci.* Report of the Australasian Association for the Advancement of Science. Sydney.
- Rep. Brit. Assoc.* Report of the British Association for the Advancement of Science. London.
- Rep. Brit. S. Africa Co.* Report of the British South Africa Company. London.
- Rep. Bur. Mines, Canad.* Report of the Bureau of Mines, Canada. Ottawa.
- Rep. Croydon Microsc. Club.* See *Proc. & Trans. Croydon Microsc. & Nat. Hist. Soc.*
- Rep. Dep. Mines, India.* Report of the Chief Inspector of Mines in India, Department of Mines. Calcutta.
- Rep. Dep. Mines N.S.* Report of the Department of Mines, Nova Scotia. Halifax (N.S.).
- Rep. Dep. Mines, Tasm.* Report of the Secretary of the Department of Mines. Hobart.
- Rep. Dep. Mines Transvaal.* See *Transvaal Mines Dep.*
- Rep. Dep. Mines, W. Austral.* Report of the Department of Mines, Western Australia. Perth (W.A.).
- Rep. Geol. Surv. Louisiana.* Report of the Geological Survey of Louisiana. Baton Rouge (La.).
- Rep. Geol. Surv. Newfoundland.* Report of the Geological Survey of Newfoundland. St. John's (N.F.).
- Rep. Geol. Surv. Transvaal.* See *Transvaal Mines Dep.*, *Rep. Geol. Surv.*
- Rep. Geol. Surv. U.K. & Mus. of Pract. Geol.* Report of the Geological Survey of the United Kingdom and of the Museum of Practical Geology. London.
- Rep. Inst. Mines & Forests Brit. Guiana.* Report of the Council of the Institute of Mines and Forests on the Gold and Forest-Industries of British Guiana. Georgetown (Demerara).
- Rep. Leicester Mus.* Report of the Committee to the Town Council, Leicester Corporation Museum and Art Gallery. Leicester.
- Rep. Mich. Acad. Sci.* Report of the Michigan Academy of Science. Lansing (Mich.).
- Rep. Rhodesia Chamb. Mines.* Report of the Rhodesia Chamber of Mines. Bulawayo.
- Rep. Rugby School Nat. Hist. Soc.* Report of the Rugby School Natural History Society. Rugby.
- Rep. S. Afr. Assoc. Adv. Sci.* Report of the South African Association for the Advancement of Science. Cape Town.
- Rep. S.E. Union Sci. Soc.* See *Trans. S.E. Union Sci. Soc.*

- Rep. Surv. Dep. Egypt.* Report on the Work of the Survey Department. Cairo.
- Rep. U.S. Dep. Agric.* Report of the United States Department of Agriculture. Washington (D.C.).
- Rep. Univ. Geol. Surv. Kansas.* Reports of the University Geological Survey of Kansas. Topeka (Kan.). See also *Ann. Bull. Min. Resources, Kansas.*
- Rep. Vermont State Geol.* Report of the State Geologist of Vermont. Montpelier (Vt.).
- Rep. & Proc. Belfast Nat. Hist. Soc.* Report and Proceedings of the Belfast Natural History and Philosophical Society. Belfast.
- Rep. & Trans. Devon. Assoc. Adv. Sci.* See *Trans. Devon. Assoc.*
- Rev. Cienc., Lima.* Revista de Ciencias. Lima.
- Rev. critique de Paléozoöl.* Revue critique de Paléozoologie. Paris.
- Rev. Inst. geogr. & hist. Bahia.* Revista trimensal do Instituto geographico e historico da Bahia. Bahia (Brazil).
- Rev. Minas, Santiago.* Revista de Minas. Santiago de Chile.
- Rev. Mus. La Plata.* Revista del Museo de la Plata. La Plata.
- Rev. R. Acad. Cienc. Madrid.* Revista de la Real Academia de Ciencias exactas, físicas y naturales. Madrid.
- Rev. Sci. Paris.* Revue Scientifique. Paris.
- Rev. Soc. sci. São Paulo.* Revista da Sociedade scientifica de São Paulo. São Paulo.
- Rhodesia Mus.* Rhodesia Museum. Bulawayo.
- Riv. ital. Paleont., Perugia.* Rivista italiana di Paleontologia, Perugia (late Bologna, Parma).
- Riv. Min. e Crist. ital. Padova.* Rivista di Mineralogia e Cristallografia italiana. Padua.
- Rochester Nat.* Rochester Naturalist. Rochester.
- Rozpr. Akad. Umiej. Krakow.* Rozprawy Wydziału matematyczno-przyrodniczego Akademii Umiejętności. Cracow.
- Samml. geol. R.-Mus. Leiden.* Sammlungen des geologischen Reichs-Museums in Leiden. Leyden.
- Schr. Gesellsch. Naturw. Marburg.* Schriften der Gesellschaft zur Beförderung der gesammten Naturwissenschaften zu Marburg. Marburg.
- Schr. Naturf.-Gesellsch. Univ. Dorpat.* Schriften herausgegeben von der Naturforscher-Gesellschaft bei der Universität Jurjew. Dorpat.
- Schr. physik.-ökonom. Gesellsch. Königsb.* Schriften der physikalisch-ökonomischen Gesellschaft. Königsberg in Pr.
- Sci. Bull. Mus. Brooklyn Inst. Arts & Sci.* Science Bulletin of the Museum of the Brooklyn Institute of Arts and Sciences. Brooklyn (N.Y.).
- Sci. Bull. Univ. Kansas.* Science Bulletin of the University of Kansas. Lawrence (Kan.).
- Sci. Proc. R. Dublin Soc.* Scientific Proceedings of the Royal Dublin Society. Dublin.
- Sci. Trans. R. Dublin Soc.* Scientific Transactions of the Royal Dublin Society. Dublin.
- Science.* Science. New York.
- Scot. Geogr. Mag.* Scottish Geographical Magazine. (Royal Scottish Geographical Society.) Edinburgh.
- Sitz. Gesellsch. naturf. Freunde, Berlin.* Sitzungsberichte der Gesellschaft naturforschender Freunde. Berlin.
- Sitz. k. Akad. Wissensch. Wien.* Sitzungsberichte der kaiserlichen Akademie der Wissenschaften, Wien. Vienna.
- Sitz. k.-bayr. Akad.* Sitzungsberichte der mathematisch-physikalischen Classe der königlich-bayerischen Akademie der Wissenschaften. Munich.
- Sitz. k.-preuss. Akad. Wissensch. Berlin.* Sitzungsberichte der königlich-preussischen Akademie der Wissenschaften. Berlin.
- Sitz. Naturf.-Gesellsch. Dorpat.* Sitzungsberichte der Naturforscher-Gesellschaft bei der Universität Jurjew. Dorpat.
- Sitz. naturh. Ver. preuss. Rheinl.* Sitzungsberichte herausgegeben vom naturhistorischen Verein der preussischen Rheinlande und Westfalens. Bonn.
- Sitz. niederrhein. Gesellsch. Nat. &c., Bonn.* Sitzungsberichte der niederrheinischen Gesellschaft für Natur- und Heilkunde zu Bonn. Bonn. See *Verh. naturh. Ver. preuss. Rheinl.*
- Sitz. u. Abh. Gesellsch. 'Isis.'* Sitzungsberichte und Abhandlungen der naturwissenschaftlichen Gesellschaft 'Isis' in Dresden. Dresden.
- Smiths. Contrib. Knowledge.* Smithsonian Contributions to Knowledge. Washington (D.C.).
- Smiths. Miscell. Coll.* Smithsonian Miscellaneous Collections. Washington (D.C.).

- Soc. 'Ger. Guidoni,' Spezia.* Società 'Gerolamo Guidoni' per la Diffusione e l'Incremento degli Studi naturali. Spezia.
- Spelunca.* 'Spelunca.' Bulletin et Mémoires de la Société de Spéléologie. Paris.
- Summ. Progr. Geol. Surv. U.K.* Summary of Progress of the Geological Survey of the United Kingdom. London.
- Summ. Rep. Geol. Surv. Canada.* Summary Report of the Geological Survey of Canada. Ottawa.
- Sver. geol. Undersökn., Afh.* Sveriges geologiska Undersökning, Afhandlingar. Stockholm.
- Sver. geol. Undersökn., Årsb.* Sveriges geologiska Undersökning, Årsbok. Stockholm.
- Tasm. Dep. Mines.* Tasmania. Department of Mines. Hobart.
- Trans. Acad. Sci. St. Louis.* Transactions of the Academy of Science. St. Louis (Mo.).
- Trans. Am. Inst. M. E.* Transactions of the American Institute of Mining Engineers. New York.
- Trans. Am. Phil. Soc.* Transactions of the American Philosophical Society. Philadelphia (Pa.).
- Trans. Austr. Inst. M. E.* Transactions of the Australasian Institute of Mining Engineers. Melbourne & Sydney.
- Trans. Brit. Assoc. Waterw. Eng.* Transactions of the British Association of Waterworks Engineers. London.
- Trans. Cambridge Phil. Soc.* Transactions of the Cambridge Philosophical Society. Cambridge.
- Trans. Canad. Inst.* Transactions of the Canadian Institute. Toronto.
- Trans. Connect. Acad.* Transactions of the Connecticut Academy of Arts and Sciences. New Haven (Conn.).
- Trans. Croydon Nat. Hist. Soc.* See *Proc. & Trans.*
- Trans. Cumberland Assoc.* Transactions of the Cumberland Association. Carlisle.
- Trans. Devon Assoc.* Transactions of the Devonshire Association for the Advancement of Science. Plymouth.
- Trans. Edinb. Geol. Soc.* Transactions of the Edinburgh Geological Society. Edinburgh.
- Trans. Geol. Soc. Glasgow.* Transactions of the Geological Society of Glasgow. Glasgow.
- Trans. Geol. Soc. S. Afr.* Transactions of the Geological Society of South Africa. Johannesburg.
- Trans. Herts Nat. Hist. Soc.* Transactions of the Hertfordshire Natural History Society and Field-Club. Hertford.
- Trans. Hist. & Sci. Soc. Manitoba.* Transactions of the Historical and Scientific Society of Manitoba. Winnipeg.
- Trans. Hull Geol. Soc.* Transactions of the Hull Geological Society. Hull.
- Trans. Hull Sci. & F.-Nat. Club.* Transactions of the Hull Scientific and 'Field-Naturalists' Club. Hull.
- Trans. Inst. M. E.* Transactions of the Institution of Mining Engineers. Newcastle-upon-Tyne.
- Trans. Inst. Mining & Metall.* Transactions of the Institution of Mining and Metallurgy. London.
- Trans. Kansas Acad. Sci.* Transactions of the Kansas Academy of Science. Topeka (Kan.).
- Trans. Leeds Geol. Assoc.* Transactions of the Leeds Geological Association. Leeds.
- Trans. Leicester Lit. & Phil. Soc.* Transactions of the Leicester Literary and Philosophical Society. Leicester.
- Trans. Linn. Soc.* Transactions of the Linnean Society. London.
- Trans. Manch. Geol. Soc.* Transactions of the Manchester Geological and Mining Society. Manchester.
- Trans. N. Engl. Inst. Min. & Mech. Eng.* Transactions of the North of England Institute of Mining and Mechanical Engineers. Newcastle-upon-Tyne.
- Trans. N.Z. Inst.* Transactions and Proceedings of the New Zealand Institute. Wellington (N.Z.).
- Trans. N.Z. Inst. M. E.* Transactions of the New Zealand Institute of Mining Engineers. Auckland (N.Z.).
- Trans. Perth Soc. Nat. Sci.* Transactions and Proceedings of the Perthshire Society of Natural Science. Perth.
- Trans. R. Geol. Soc. Cornwall.* Transactions of the Royal Geological Society of Cornwall. Penzance.
- Trans. Roy. Irish Acad.* Transactions of the Royal Irish Academy. Dublin.
- Trans. Roy. Soc. Canada.* See *Proc. & Trans. Roy. Soc. Canada.*

- Trans. Roy. Soc. Edinb.* Transactions of the Royal Society of Edinburgh. Edinburgh.
- Trans. Roy. Soc. S. Austral.* Transactions of the Royal Society of South Australia. Adelaide.
- Trans. S.Afr. Phil. Soc.* Transactions of the South African Philosophical Society. Cape Town.
- Trans. S.E. Union Sci. Soc.* Transactions of the South-Eastern Union of Scientific Societies. London.
- Trans. Wisconsin Acad. Sci.* Transactions of the Wisconsin Academy of Science, Arts & Letters. Madison (Wis.).
- Trans. Woolhope Nat. F.-C.* Transactions of the Woolhope Naturalists' Field-Club. Hereford.
- Trans. Zool. Soc. Lond.* Transactions of the Zoological Society. London.
- Transvaal Mines Dep., Rep. Geol. Surv.* Transvaal Mines Department. Report of the Geological Survey. Pretoria.
- Trav. Sec. géol. Cab. Sa M. St. Petersb.* Travaux de la Section géologique du Cabinet de Sa Majesté. St. Petersburg.
- Tufts Coll. Studies.* Tufts College Studies. Tufts College (Mass.).
- Verh. deutsch. wissensch. Ver. Santiago.* Verhandlungen des deutschen wissenschaftlichen Vereins zu Santiago de Chile. Valparaiso.
- Verh. k.-k. geol. Reichsanst.* Verhandlungen der kaiserlich-königlichen geologischen Reichsanstalt. Vienna.
- Verh. k.-k. zool.-bot. Gesellsch. Wien.* Verhandlungen der kaiserlich-königlichen zoologisch-botanischen Gesellschaft in Wien. Vienna.
- Verh. naturf. Gesellsch. Basel.* Verhandlungen der naturforschenden Gesellschaft. Basel.
- Verh. naturh. Ver. preuss. Rheinl.* Verhandlungen des naturhistorischen Vereins der preussischen Rheinlande, Westfalens und des Regierungs-Bezirks Osnabrück. Bonn.
- Verh. russ.-k. min. Gesellsch.* Verhandlungen der russisch-kaiserlichen mineralogischen Gesellschaft. St. Petersburg.
- Verh. schweiz. naturf. Gesellsch.* Verhandlungen der schweizerischen naturforschenden Gesellschaft. Berne, &c. See also *Actes Soc. helv. Sci.*
- Verh. siebenbürg. Ver. Naturw.* Verhandlungen und Mittheilungen des siebenbürgischen Vereins für Naturwissenschaften. Hermannstadt.
- Veröffentl. Inst. Meeresk. Berlin.* Veröffentlichungen des Instituts für Meereskunde und des geographischen Instituts an der Universität. Berlin.
- Victorian Nat., Melbourne.* Victorian Naturalist. Melbourne.
- Vidensk. Meddel. naturh. Foren. Kjöbenhavn.* Videnskabelige Meddelelser fra den naturhistoriske Forening i Kjöbenhavn. Copenhagen.
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- Atlas Mts. (N. Afr.).—Kilian, W., 6 & 7.
- Atlin (B.C.).—Carmichael, A.
- Atmosphere, primeval.—McKee, R. H.
- , See also Climates.
- Atmospheric pressure & earth-movements.—Gurnell, J.
- Atractites*.—Diener, C., 2.
- Atrypa*.—Reed, F. R. C.; Scupin, H.
- Atys*.—Icke, H.; Ravn, J. P. J., 4.
- Aube (France).—Lemoine, P., 6.
- Auburn (Cal.).—Furlong, E. L.
- Aucella* & *Aucellina*.—Pavlov, A. P.
- Aude river-basin (France).—Blayac, J., 2.
- Audenarde (Flanders).—Cornet, J., 2.
- Auditory organs, Ichthyosaurian.—Dollo, L., 4.
- Augite.—Backlund, H.; Cesàro, G.; Duparc, L.; Smeeth, W. F.; Smirnov, V. P.; Wahl, W.; Wiegell, H.
- Augitic rocks, Russian.—Backlund, H., 1-3.
- Augusta Co. (Va.).—Watson, T. L., 3.
- Aulacostrepsis*.—Perner, J.
- Aulacothyris*.—Stuckenber, A.
- Aulosteges*.—Etheridge, R., fil., 2.

- Auriferous conglomerates, Monmouth.—Cullis, C. G.
 ———, Transvaal.—Cullis, C. G.; Johnson, J. P.; Young, R. B.
 ———. *See also* Gold.
 Aurignac (Cantal).—Mortillet, A. de.
 Aurillac (Cantal).—Mayet, L.
Auriptygma.—Perner, J.
 Aussee (Styria).—Bascom, F.
 Australasian Association Adv. Sci., excursion.—Twelvetrees, W. H., 5.
 Australia, Central.—Davidson, A. A.; Gregory, J. W.; Maclaren, J. M., 2.
 ———, coal-fields.—David, T. W. E.
 ———, Echinoidean nomenclature. — Bather, F. A., 3; Chapman, F., 5.
 ———, islands of Southern.—Giglioli, H. H.
 ———, mining.—Gregory, J. W., 3 & 7.
 ———, oceanic control of climate. — Gregory, J. W., 1 & 2.
 ———, Palæozoic glaciation.—Gregory, J. W., 12.
 ———, Silurian Ophiuroidea.—Bather, F. A., 1 & 3.
 ———, source of artesian water.—Maclaren, J. M., 2.
 Austria.—*See also* Galicia; Geological Survey, &c.
 ——— (Lower).—Anon., 45; Firtsch, G.; Krahuletz, J.; Redlich, A.; Reinhold, F., 2; Schaffer, F. X., 3; Wuest, E., 3; Zdarsky, A.
 ———, salt-deposits.—Becke, F., 2.
 Auteuil (Seine).—Combes, P., *fil.*, 2 & 4.
 Autrans (Isère).—Pâquier, V.
 Auvergne (France).—Glangeaud, P., 1 & 2; Gonnard, F., 3.
 ———. *See also* Puy-de-Dôme, &c.
 Auvers (Seine-et-Oise).—Munier-Chalmas, E.
 Aveyron (France).—Bergeron, J.
Avicula.—Moberg, J. C., 4; Waagen, L., 4.
Aviculopecten.—Beede, J. W.; Clarke, J. M., 3; Etheridge, R., *fil.*, 2; Gortani, M., 2; Stuckenberg, A.; Waagen, L., 4.
 Avigliana, Lake (Piedmont).—Clerici, E., 3; Roccati, A., 2.
 Avonian, Somerset. — Sibly, T. F.; Vaughan, A., 2.
 Axes, crystalline.—Evans, J. W., 7.
 Ayrshire (Rhodesia).—Beck, R., 4.
 ——— (Scotland).—Falconer, J. D., 2; Reed, F. R. C., 4 & 5.
 Aziz, Djebel (Tunis).—Stefani, C. de, 2.
 Azurite, Sardinia.—Millosevich, F.
 ———. *See also* Lazurite & Zircon.
 Bacchus Marsh (Victoria).—Chapman, F.
Baculites. — Etheridge, R., *fil.*, 2; Pauleke, W.; Woods, H.
 Bad Lands, Victoria.—Leach, J. A.
 Baddeleyite, Ceylon.—Blake, G. S.
 Baden (Germany).—Becker, E.; Böhm, G.; Eisele, H.; Freudenberg, W.; Philipp, H.; Rosenbusch, H., 2;
 Schalch, F.; Schmidle, —; Schmidt, C., 8; Steinmann, G.; Sterzel, J. T.; Stizenberger, J.; Weinschenk, E.; Wilckens, O., 14.
 Baggeridge Colliery (Staff.).—Tonge, J.
 Bagheria (Sicily).—Checchia-Rispoli, G., 2.
 Bagnères-de-Luchon (Haute-Garonne). —Carez, L.
 Bagni (Tuscany).—Cocchi, I.
 Bahia (Brazil).—Derby, O. A.; Mawson, J.
Baiera.—Yokoyama, M.; Zeiller, R.
 Bajocian, Burgundy.—Lissajous, —.
 ———, Normandy.—Antoine, M.
 ———. *See also* Jurassic.
 Bakewell (Derby).—Arnold-Bemrose, H. H.
 Baku (Caucasus). — Golubiatnikov, D. V.; Kvitka, S., 2; Orlov, A., 4; Ryabinin, A., 1 & 2.
Balanus.—Alessandri, G.
 Balaton, Lake (Hungary).—Kormos, T.
 Balchas, Lake (Turkestan).—Stepanov, P.
 Balearic Is.—Vidal, L. M.
 Balkan Peninsula.—Oppenheim, P., 2.
 ———. *See also* Turkey, &c.
 Ballarat East (Victoria).—Gregory, J. W., 8.
 Ballstädt (Thüringia).—Amthor, R.
 Ballycastle (Co. Antrim).—Cole, G. A. J., 2.
 Baltic.—Doss, B.; Gagel, C., 2 & 3; Wegemann, G.; Wiman, C.
 ——— amber.—Meunier, F., 1 & 2.
 ——— drift.—Milthers, V.
 ———, submarine geology of the.—Mickwitz, A.; Munthe, H.
 Baltic Provinces (Russia).—Schmidt, F.
 Baluchistan (Asia). — Freise, F., 2; Pilgrim, G. E.; Vredenburg, E. W., 2 & 4.
Baltoceras.—Ruedemann, R., 2.
Bambanagites.—Diener, C.
 Bamle (Norway).—Vogt, J. H. L., 3.
 Banket, Transvaal.—*See* Auriferous conglomerates.
Bantiska.—Sellards, E. H.
 Baoussé-Roussé, Mentone. — Flamand, G. B. M.
Baptanodon.—Gilmore, C. W.
 Barbados (W.I.).—Harrison, J. B.
Barbalia.—Woods, H.
 Barbery (Calvados).—Heurteau, C. E.
 Barcelona (Spain).—Lambert, J.
 Bardon Hill (Leicester).—Keay, W.
 BARGELLINI, M., *Obit.* — *See* Pantanelli, D., 2.
 Barkley West (Cape Colony).—Rogers, A. W.
 BARON, R., *Obit.* — *See* Anon., 1.
Barrandeoceras.—Ruedemann, R., 2.
 BARRETTI, M., *Obit.* — *See* Sacco, F., 12.
 BARRY, Sir F. T., *Obit.* — *See* Anon., 2.
 Bars, Baltic river.—Doss, B.
 Barton (Hampshire).—Andrews, C. W.
 Bartonian, Paris Basin.—Munier-Chalmas, E.

- Barytes.—Cesàro, G.; Cornu, F.; Eakle, A. S.; Fersmann, A.; Sommerfeldt, E., 5; Surgunov, N. I.; Watson, T. L., 5; Zimányi, K.
- Basalt, Baden.—Becker, E.
- , Bombay Pres.—Fermor, L. L.; Freudenberg, W.
- , Cleveland Dyke.—Smith, S.; Wilckens, O., 4.
- , Derbyshire.—Arnold-Bemrose, H. H.
- , Færøe Is.—Cornu, F., 10; Lomas, J., 2.
- , Greenland.—Schwantke, A.
- , Hesse.—Chelius, C.; Hornstein, F. F., 2; Wiegel, H., 2.
- , Linlithgow, with plants.—Cadell, H. M.
- , Lombardy.—Artini, E. E.
- , melting-point of.—Fleischer, A.
- , Mexico, with plants.—Solózano, M. M.
- , New South Wales.—Card, G. W.
- , Rhön Mts.—Buecking, H., 2; Sellner, J.
- , Sahara.—Chudeau, R., 3.
- , Sardinia.—Serra, A., 3.
- , Senegambia.—Guilbert, L.
- , titaniferous, of W. Mediterranean.—Washington, H. S.
- , Transvaal.—Wagner, P. A.
- Basaltic erratics, North Germany.—Martin, J.
- Basècles Quarries (Hainault).—Cornet, J., 5.
- Basel (Switzerland).—Schmidt, C., 6 & 9.
- Basilicata (Italy).—Lorenzo, G. de, 3.
- Basins, dried up.—Grund, A., 2; Van de Wiele, C.
- Baskunchak (Astrakhan).—Rehbinder, B.
- Basque Provinces (France & Spain).—Andán de Yarza, R., 2; Oppenheim, P., 3.
- Basses-Alpes (France).—Boussac, J., 4; Lamarque, H.
- (—). *See also* Pyrenees (French).
- Bastogne (Belgium).—Stainier, X., 3.
- Basutoland (S. Afr.).—Dornan, S. S.
- Bath (Somerset).—Buckman, S. S., 3; Richardson, L., 1 & 4.
- Bathgate (Linlithgow).—Falconer, J. D.
- Bathonian, Burgundy.—Lissajous, —.
- , Indre.—Koby, F.
- , Poland.—Gothan, W.
- Bath-stone.—Anon., 44.
- Bathurst (N.S.W.).—Benson, W. N.; Taylor, T. G., 2.
- Batillaria*.—Cossmann, M., 2.
- Batoka Gorge (Rhodesia).—Lamplugh, G. W., 2.
- Batostoma*.—Nickles, J. M.
- Battery Point, Sydney (N.S.).—Fulton, T. T.
- Baudour (Hainault).—Brien, V.; Cornet, J.; Renier, A., 7.
- Bauxite, New Mexico.—Emmons, S. F., 4.
- Bavaria.—Ammon, L. von; Clessin, S.; Conwentz, H., 6; Erdmannsdörffer, O. H., 3; Hermann, R., 1 & 2; Knauer, J.; Köhne, W.; Plieninger, F.; Reis, O. M.; Rimann, E., 2; Schulze, G.; Schuster, M. E.; Spandel, E.; Tornquist, A., 2; Walter, K.
- Bawgyo (Shan States).—La Touche, T. D.
- Baylea*.—Stuckenberg, A.
- Beach, Havre submarine.—Babeau, L.
- , Sussex.—Martin, E. A., 1 & 2.
- Beaches.—*See* Raised beaches.
- Beachia*.—Clarke, J. M., 3.
- 'Beagle,' H.M.S., collection of rocks.—Harker, A.
- Beaulieu (Alpes-Maritimes).—Johnston-Lavis, H. J., 2.
- Beaully R. (Scotland).—Hinxman, L. W.
- Beaulieu (Mayenne).—Dollfus, G. F., 6.
- Beaumont (Dauphiné).—Lory, P.
- Beaver (Pa.).—Woolsey, L. H.
- Bechuanaland (S. Afr.).—Rogers, A. W., 5; Molyneux, A. J. C.
- Bedous (Pyrenees).—Fournier, E., 2.
- Beekman (N.Y.).—Merrill, F. J. H., 3.
- Beekmantown Formation, New York.—Ruedemann, R., 2.
- Beienrode (Germany).—Busz, K., 2.
- Beinn Dronnaig (Ross).—*See* GREAT BRITAIN, Geol. Surv., 1.
- Belemnites*.—Whitfield, R. P., 2.
- , arms of.—Crick, G. C., 4.
- , Cretaceous.—Bogdanovich, K. I.; Crick, G. C., 1 & 3; Sherborn, C. D.
- , Jurassic.—Bohm, G., 5; Crick, G. C., 4; Whitfield, R. P.
- Belemnoteuthis*.—Langenhan, A.
- Belfast (Transvaal).—Humphrey, W. A.
- Belgaum District (Bombay Pres.).—Fermor, L. L., 2.
- Belgian frontier-valleys.—Rutot, A., 4.
- 'Belgica' Arctic Expedition.—Termier, P.
- Belgium, Carboniferous Limestone.—Guerich, G., 4.
- , earthquakes.—Simoens, G., 7.
- , geological literature.—*See* BELGIUM, Serv. géol., 1-4.
- , Geological Survey.—Mourlon, M.
- , *See also* BELGIUM, Geol. Surv.
- , river-evolution, Northern.—Briquet, A.
- , *See also* Liège, Carboniferous, Quaternary, &c.
- Belgard (Pomerania).—Schneider, O., 2.
- Belinurus*.—Woodward, H., 5.
- Bell Mount (Tasmania).—*See* TASMANIA, Dep. Mines, 3.
- Belle-Ile (Britanny).—Pussenot, —.
- Bellerophon*.—Clarke, J. M., 3; Etheridge, R., *fil.*, 2; Spitz, A.; Stuckenberg, A.; Weller, S.
- limestone, Cadore Valley.—Canova, G.

- Bellite.—Kœchlin, R.
 Belluno (Venetia). — Dal Piaz, G.; Harboe, E. G., 2.
Belonostomus.—Mawson, J.
 Belvedere (Transvaal).—Hall, E. T.
 Ben Nevis (Scotland).—Mackie, W.
 Bena (Sardinia).—Lovisato, D., 2.
 Benambra (Victoria). — Kitson, A. E., 3.
 Bendigo (Vict.).—Dunn, E. J., 2; Mahony, D. J.
Benneckia.—Schmidt, M., 3.
 Bengal (India).—See Coal, Dacca, &c.
 —, Bay of, new island in the.—Headlam, E. J.
 Benitoite, California. — Louderback, G. D., 2.
 Bennisch (Moravia).—Kretschmer, F.
Benoistia.—Cossmann, M., 2.
 Bentheim (Hanover).—Harbort, E.
 Beraun (Bohemia).—Seemann, F.
 Berekei (Baku).—Golubiatnikov, D. V., 2.
 Bergen (Norway).—Cuttriss, S. W.; Forsyth, D., 3; Kolderup, C. F.; Reusch, H., 1-4.
 Berkshire. — Monckton, H. W., 2; Treacher, L.; White, H. J. O.
 Berlin (Prussia).—Wahnschaffe, F.
 — (—), underground railway.—Kaunhowen, F., 2.
 —. See also Brandenburg, &c.
 Bermuda Is. (W.I.).—Verrill, A. E.
 Berne (Switzerland). — Baltzer, A.; Gerber, E.; Turnau, V.
 Bernese Alps (Switzerland).—Arbenz, P.
 —. See also Alps.
 Bernina District (Grisons).—Linck, G.
 Berric (Britanny).—Pussenot, —.
 Berringa (Vict.).—Baragwanath, W., *fil.*
 Bertaimont boring (Mons).—Cornet, J., 6.
 BERTRAND, M., *Obit.*—See Allorge, M. M.; Anon., 3; Cayeux, L., 7; Termier, P., 6.
 Beryl.—Eakle, A. S.; Ford, W. E., 2; Königsberger, J.
 Beryllium.—Nicolardot, P., 3.
 Besimauda Group, Alpes Maritimes.—Sacco, F., 9.
 BEST, E., *Obit.*—See Anon., 4.
Beyrichia.—Siemiradzki, J. von.
Beyrichites.—Reis, O. M.
 Bhekowli (Bombay Pres.).—Fermor, L. L., 2.
 Biarritz (Basses-Pyrénées). — Boussac, J., 5; Oppenheim, P., 3.
Bicarpellites.—Perkins, G. H., 5.
 Big River (Ky.).—Crandall, A. R.
 Bighorn Mts. (Wy.).—Darton, N. H., 1 & 3; Fisher, C. A.
 Bihar Mts. (Hungary).—Szadeczky, J. von.
Bilobites.—Fritsch, A., 3.
Biloculina.—Chapman, F., 6.
 Bilstein (Westphalia). — Denckmann, A., 3.
 Bimbowrie (S. Austral.).—Anon., 30; Mawson, D.
 Binagady (Baku).—Ryabinin, A.
 Bingham (Utah).—Brinsmade, R. B., 4.
 Bingley (Yorks).—Gregory, E. E.
 Binn Valley (Valais).—Bowman, H. L.; Smith, G. F. H., 3; Trechmann, C. O.
 Biotite, analysis of.—Dalmer, K.
 —, Kamp Valley.—Firtsch, G.
 — -gneiss, Erzgebirge.—Dalmer, K., 2.
 — —, Zeia R.—Ahnert, E. E., 3.
 Birds, fossil.—Giglioli, H. H.; Groom, T. T., 2; Portis, A.
 —, origin of.—Broom, R.
 BIRLEY, (Miss) C., *Obit.*—See Anon., 5.
 Birmingham (Warwicks). — Harrison, W. J.
 Bisbee (Ariz.).—Brinsmade, R. B.
 Bismuth, yttrium &.—Bodman, G.
Bison.—Phleps, O.
 Bitumen, origin of.—Stremme, —; see also Paraffin, &c.
 Bituminous limestone, Auvergne. — Gonnard, F., 3.
 Bjäresjöholm (Scania).—Holst, N. O., 2.
 Black Forest (Baden). — Eisele, H.; Philipp, H.; Rosenbusch, H., 2; Schallch, F.; Schmidt, C., 8; Weinschenck, E., 2.
 Blackdown Hills (Somerset).—Ussher, W. A. E.
 Black Hills (Dak.).—Whitfield, R. P., 2.
 Black limestone, Liège.—Destinez, P.
 Black Ridge (Queensl.).—Ball, L. C.
 Black Sand, Californian auriferous.—Day, D. T.; Edman, J. A.
 — —, —, New Zealand, &c.—Longridge, C. C.
 Black Sea Provinces (Russia).—Sokolov, N. A.
 Blackheath (Kent).—Holmes, T. V., 3.
 BLAKE, C. E., *Obit.*—See Geikie, Sir A., 2.
 Blanco, Cape, peninsula (W. Africa).—Gravel, A.
 BLANFORD, W. T., *Obit.*—See Bonney, T. G.
 Blanz (Sàone-et-Loire).—Zeiller, R.
Blastoconus.—Roth, S., 3.
Blastoidocrinus.—Hudson, G. H., 2.
 Blende, Liège.—Rauw, H. de.
 —, Ouro Preto.—Costa Sena, J. C. da.
 Blocks, exotic, in Flysch.—Heim, A., 4.
 Blomstrandite.—Kœchlin, R.
 Blowing springs & wells, Georgia (U.S.A.).—McCallie, S. W., 2.
 Bluebell Hill (Kent).—Dibley, G. E., 2.
 Blue ground, South Africa.—Macco, A.
 Bluff Bore, Durban.—Anderson, W.
 Blühnbach Valley (Salzburg).—Fugger, E.
 Bobby's Creek (N.Z.).—Harrison, L. H.
 Bodensee.—See Constance, Lake.

- BODMER-BEDER, A.**, *Obit.*—See Grubermann, U., 2.
- Bogoslov Is.** (Behring Sea).—Gilbert, C. H.
- Bogoyavlensk spring** (Ufa Gov.).—Nechaev, A. V.
- Bogs**, Ireland.—Ryan, H.
- , origin of.—Potonié, H., 2.
- , Prussia (East).—Klautzsch, A.
- , Sweden.—Gavelin, A.; Hasselman, H.
- , See also Peat-bogs.
- Bohemia**.—Cornu, F., 5, 6, & 9; Fritsch, A., 1-3; Heinrich, R.; Hibsich, J. E.; Hinterlechner, K., 1 & 2; Schmidt, A.; Seemann, F.; Perner, J.; Petrascheck, W., 1 & 3; Sokol, R.; Speier, P.; Želízko, J. V.; see also Uranite, &c.
- Boicza** (Transylvania).—Pálffy, M. von, 2.
- Bokkeveld Beds**, Cape Colony.—Reed, F. R. C., 3 & 7.
- Bolivia** (S. Am.).—Courty, G., 3; MacAlister, D. A., 3; Pearce, R.; Spencer, L. J., 2; Steinmann, G., 4.
- Bolderian**, Belgium.—Åbel, O.
- Bole**, New South Wales.—Card, G. W.
- Bolivina**.—Chapman, F., 6.
- Bolsena, Lake** (Italy).—Moderni, P.; Orzi, D.
- Bombay Pres.** (India).—Fermor, L. L., 1 & 2.
- Bonarka** (Galicia).—Smoleński, G.
- Bone-bed**, Allier Miocene.—Glangaud, P., 5.
- , Rhætic.—Amthor, R., 2.
- Bones**, age of cave.—Cosyns, G.
- Bo'ness** (Linlithgow).—Cadell, H. M.
- Bonn** (Rh.-Pruss.).—Pohlig, H., 1 & 2.
- Bonneville** (Savoy).—Douxami, H.
- Bonvei, Castello di** (Sardinia).—Millosevich, F.
- Book Cliffs** (Utah).—Emmons, S. F., 3.
- Borax**, Peru.—Jochamowitz, A.
- Boremys**.—Lambe, L. M.
- Borings**, Alsace.—Van Werveke, L., 1 & 2.
- , Antwerp.—Van Ertborn, O.
- , dip of strata in.—Simoens, G., 4.
- , Dresden.—Nessing, R.
- , Flanders.—Halet, F., 3.
- , Galicia.—Quaas, A., 2.
- , Kent.—Dawkins, W. B., 3.
- , Klotz.—Steinmann, G., 6.
- , Leobendorf.—Schaffer, F. X., 3.
- , Limburg (Belgian).—Stainier, X., 2; Van Ertborn, O., 9.
- , Liège.—Stainier, X.
- , Lincoln.—Hull, E., 2; McKay, W.
- , Malines.—Halet, F.
- , Meurthe-et-Moselle.—Zeiller, R., 3.
- , Meylegem.—Cornet, J., 2.
- , Middlesex.—Whitaker, W., 2.
- , Midland Counties.—Gibson, W., 1 & 2.
- Borings**, Mons.—Cornet, J., 6.
- , Natal.—See NATAL, 1.
- , Petrovaradin.—Koch, A.
- , Pripet river-basin.—Karpinski, A. P., 4.
- , Prussia.—Keilhack, K.; Zimmermann, E.
- , Russia.—Sinzov, J.; Sokolov, N. A.
- , Russian Poland.—Oppokov, E. V.
- , Schleswig-Holstein.—Clausen, H.
- , Silesia.—Quaas, A.
- , South Australia (N. Terr.).—Etheridge, R., *fil.*, 2.
- , United States, 1905.—Fuller, M. L., 4.
- , Western Australia.—Jack, R. L.
- , See also Well-sections, &c.
- Borneo** (E.I.).—Martin, K.; Schmidt, C.
- Bornholm** (Baltic).—Nathorst, A. G., 2.
- Borocalcite**.—Van 't Hoff, J. H., 3.
- Borszék** (Transylvania).—Pálffy, M. von.
- Boryslaw** (Galicia).—Grzybowski, J.
- Bos**.—Mertens, A.; Phleps, O.
- Boshof** (Orange River Colony).—Johnson, J. P., 2.
- Bosnia**.—Katzner, F.
- Boston** (Mass.).—Clapp, F. G.
- Botany**, Palæozoic.—Scott, D. H., 3.
- Bothrostrobus**.—Renier, A., 6.
- Botrophyllum**.—Stuckenberg, A.
- BOTTI, U.**, *Obit.*—See Stefano, G. de.
- Bouches-du-Rhône** (France).—Boistel, A.; Domage, H.; Fournier, E., 3; Replin, J.
- Boulder-Clay**, Lancashire.—Brown, W. D.
- , Waterford.—Reed, F. R. C., 2.
- Boulder Co.** (Colo.).—Headden, W. P., 2.
- Boulder Lake**, Nelson (N.Z.).—Bell, J. M., 3.
- Boulder-shale**, Alaska.—Blackwelder, E., 2.
- Boulders**, erratic.—Howarth, J. H., 3 & 4.
- , glaciers &.—Meunier, S., 5.
- , stretched, Georgia.—McCaule, S. W.
- , See also Erratic blocks, Glacial conglomerates, &c.
- Bouleiceras**.—Thevenin, A.
- Boultham Well** (Lincoln).—McKay, W.
- Bourbon-Lancy** (Burgundy).—Lévy, Alb. M.
- Bournemouth** (Hants).—Forsyth, D., 7.
- Bournonite**.—Gonnard, F., 4.
- Bourton-on-the-Water** (Gloucester).—Richardson, L.
- Bovey Tracey** (Devon).—Martin, E. A.
- Bowral Quarries** (N.S.W.).—Mawson, D., 3.
- Box** (Wilts).—Anon., 44.
- Boxholm** (Gothland).—See SWEDEN, Geol. Undersökn.
- Brabant** (Belgium).—Hankar-Urban, A., 2; Simoens, G., 9.

- Brachauchenius*.—Williston, S. W.
 Brachiopoda, Carboniferous.—Bolton, H.; Cumings, E. R., 2; Etheridge, R., *fil.*, 2; Stuckenberga, A.; Vaughan, A.; Weller, S.
 —, Cretaceous.—Ascher, E.; Wilckens, O., 2; Wisniowski, T.
 —, Devonian.—Clarke, J. M., 3; Courty, G., 3; Drevermann, F.; Scupin, H.; Walther, K.; Williams, H. S., 2.
 —, Jurassic.—Boehm, G., 5; Buckman, S. S., 6; Dal Piaz, G.; Deninger, K.; Macovei, G.; Richardson, L., 4.
 —, morphology of.—Buckman, S. S., 2.
 —, nomenclature of.—Buckman, S. S., 4 & 5.
 —, Ordovician.—Weller, S., 3.
 —, parallel development of.—Buckman, S. S.
 —, Permian.—Beede, J. W.
 —, Permo-Carboniferous.—Gortani, M., 2.
 —, Permo-Triassic.—Caneva, G.
 —, Silurian.—Dun, W. S.; Færste, A. F.; Hudson, G. H.; Reed, F. R. C.; Seely, H. M., 4; Shimer, H. W.; Siemiradzki, J. von; Wiman, C.
 —, Tertiary.—Arnold, R., 3; Ihering, H. von, 2; Nelli, B., 2; Sacco, F., 2; Tokunaga, S.
 —, Triassic.—Boehm, G., 3; Diener, C., 2; Martelli, A., 2; Schmidt, M., 3.
Brachyphyllum.—Jeffrey, E. C.
 Braine-le-Comte (Brabant).—Hankar-Urban, A., 2; Van Ertborn, O., 2.
 Braintree (Mass.).—Shimer, H. W., 2.
 Brandenburg (Prussia).—Kaunhowen, F., 2; Wahnschaffe, F.; Werth, E.
 Brandon (Vt.).—Dale, T. N.; Jeffrey, E. C., 2; Perkins, G. H., 4, 5, 9, & 10.
 Brazil (S. Am.).—Derby, O. A., 1 & 2; Costa Sena, J. C. da; Douvillé, R., 10; Hussak, E., 1 & 2; Lisbôa, A. R., 1-4; Mawson, J.; Oliveira, S. de; Reinmann, G.; Schuchert, C.; Smith, G. F. H.; White, I. C.; Winge, H.; Woodward, A. S., 4; *see also* SÃO PAULO, Comm. Geogr. e Geol.
 Breccias, Beaumont Jurassic.—Lory, P.
 —, Tarentaise Liassic.—Kilian, W., 8.
 —, volcanic.—Lacroix, A., 2.
 Brenner District (Tyrol).—Frech, F.
 Breslau (Silesia).—Beyschlag, F.; Kemna, A.
 Breton, Cape (N.S.).—McIntosh, K.; Wolfe, L. A. de.
 Brevig (Norway).—Kreutz, S.
Breyeria.—Handlirsch, A.
Brygnia.—Vredenburg, E. W., 2.
 Briançonnais (France).—Termier, P., 5.
 Bride-stones (Cleveland Hills).—Sumner, E. J.
 Bridger Beds, Wyoming.—Sinclair, W. J., 2.
 Brighton (Sussex).—Martin, E. A., 1 & 2.
 Brill (Bucks).—Davies, A. M., 1 & 4.
 Brine-well, Bawgyo.—La Touche, T. D.
Brissopsis.—Hall, T. S., 4; Lambert, J. Bristol.—Anon., 42; Bolton, H., 1 & 2; Reynolds, S. H., 5 & 6.
 Britain, succession of plant-formations in.—Moss, C. E.
 Brittany (France).—Bézier, T.; Bigot, A., 2; Boussac, J., 7; Cayeux, L., 4; Pussenot, —; Stutzer, O., 3.
 British ancient volcanoes.—Carter, W. L., 3.
 British Association Adv. Sci., Ipswich Meeting, 1895.—Conwentz, H., 4.
 —, Liverpool, 1896.—Kendall, P. F., 4.
 —, Bristol, 1898.—Kendall, P. F., 9.
 —, Leicester, 1907.—Gregory, J. W., 5; Lomas, J., 7.
 British Colonies & Dependencies, Mineral output.—*See* GREAT BRITAIN & IRELAND, Home Office.
 British Columbia (Canada).—Ashworth, J.; Barlow, A. E.; Brock, R. W.; Carmichael, A.; Daly, R. A.; Lamb, H. M.; Lambe, L. M., 2 & 3; Pavlov, A. P.; Reagan, A. B.; Vaux, G., *fil.*; *see also* BRITISH COLUMBIA.
 British East Africa.—Crook, T., 6; Smith, G. E.
 British Isles, analyses of coals.—Greenwell, A.
 —, geology of the.—Roberti, I. L. A.
 —, Pleistocene submergence.—Hull, E.
 —. *See also* ENGLAND & WALES; GREAT BRITAIN; Trias, &c.
 British Museum, Nat. Hist.—*See also* BRITISH MUSEUM, Nat. Hist.; & Woodward, A. S., 8.
 British N.W. Borneo.—Schmidt, C., 2.
 Brixen (Tyrol).—Sander, B.
 Broadmeadows (Victoria).—Hall, T. S., 2.
 Brocken Massif (Harz Mts.).—Erdmannsdorffer, O. H., 1 & 2.
 Brohl Valley (Rh.-Pruss.).—Völzing, K.
 Broken Hill (N.S.W.).—Hlawatsch, C.
 Bromsgrove (Worcester).—Wills, L. J.
 Brora (Sutherland).—Stopes, Marie C.
 Broso (Piedmont).—Colomba, L., 3.
 Brown coal, Germany.—Linstow, O. von, 2; Priemel, K.; Quaa, A.; Steinmann, G., 5.
 —. *See also* Lignite.
 BROWN, M. W., *Obit.*—*See* Anon., 6.
 Bruce-Castle Museum (Tottenham).—Reader, T. W.
 Brünig Pass (Switzerland).—Niehammer, G.
 Brunnen (Schwytz).—Frueh, J., 3.

- Brunswick (Germany).—Mueller, G.; Stolley, E.; Wollemann, A.
 Brussels (Belgium).—Mourlon, M., 3.
 Brusson (Piedmont).—Colomba, L., 2.
 Brusvily (Britanny).—Bézier, T.
 Brūx (Bohemia).—Sachs, A., 2.
 Bryozoa, Carboniferous.—Cumings, E. R., 2; Etheridge, R., *fil.*, 2; Johnson, A.
 —, Cretaceous.—Gregory, J. W., 6;
 —, Lang, W. D., 2; Woods, H.
 —, Devonian.—Clarke, J. M., 3.
 —, Jurassic.—Lang, W. D.
 —, Ordovician.—Nickles, J. M.; Reed, F. R. C., 6.
 —, Silurian.—Bassler, R. S.; Chapman, F., 8; Reed, F. R. C.; Seely, H. M., 4.
 —, SOLDANI'S work on.—Neviani, A.
 —, Tertiary.—Canu, F.; Pachundaki, E.; Waters, A. W.
Bubalus.—Scott, W. B.
Bucania.—Etheridge, R., *fil.*, 2; Stuckenberg, A.
Buccinum.—Bogachev, V.
 Buchan (Victoria).—Hall, T. S., 7; Kitson, A. E., 6.
Buchites.—Diener, C.
 Buckinghamshire.—Davies, A. M., 1 & 4; Kidner, H.; Reader, T. W., 2; Thompson, B., 3.
 Buenos Aires (Argentina).—Ameghino, F., 4 & 6; Outes, F. F.
 Buffalo (N.Y.).—Luther, D. D.
 Buffalo Creek (W. Va.).—Brady, F. W.
 Buffalo R. (East London).—Schwarz, E. H. L., 8.
 Bugti Hills (Baluchistan).—Pilgrim, G. E.
 Building construction, earthquake countries &.—Ball, R. S.; Montessus de Ballore, F. de.
 —, stones, Dnieper Valley.—Kuznetsov, S.
 —, effect of fire on.—McCourt, W. E., 1 & 2.
 —, Finland.—Anon., 46.
 —, Iona.—Elsden, J. V., 2.
 —, Kansas.—Haworth, E., 1 & 2.
 —, New Jersey.—McCourt, W. E., 2.
 —, New York.—McCourt, W. E.
 —, Vermont.—Perkins, G. H., 8.
 —, Württemberg.—Kaiser, E., 2.
Bukowskiites.—Diener, C., 2.
 Bulawayo (Rhodesia).—Mennell, F. P.
 Bulgaria.—Oddone, E.
Bulimina.—Chapman, F., 6.
Bulimorpha.—Beede, J. W.
Bulla.—Wilckens, O., 2.
 Buller coalfield (N.Z.).—See NEW ZEALAND, Dep. Mines, 2.
Bullinella.—Ihering, H. von, 2.
 Bungay (Suffolk).—Dutt, W. A.
 Bunter sandstone, clay-galls.—Blanck, E.
 —, Vosges.—Kranz, W.
 —, See also Trias.
 Burford (Oxon).—Richardson, L., 3 & 7.
 Burg (Hesse).—Reuning, E.
 Burgettstown (Pa.).—Griswold, W. T.
 Burgundy (France).—Lévy, Alb. M.; Lissajous, —.
 Buried forests, Denmark.—Vaupell, C.
 Burlington (Vt.).—Hitchcock, C. H., 2.
 Burma.—Bleek, A. W. G.; Maclaren, J. M., 1 & 4; Oldham, R. D.; Pascoe, E. H., 1-3; Reed, F. R. C.; Tanatar, J. J.
 Burnett (Queensl.).—Dunstan, B., 2.
 Burrington Combe (Somerset).—Sibly, T. F.
 Burscough (Lancs).—Brown, W. D.
 Burtville (W. Austral.).—Gibson, C. G.
 Buru (D.E.I.).—Bohm, G., 2.
 Bury Estuary (Caermarthen).—Strahan, A., 3.
 'Bus,' sunken land of.—Poole, H. S., 2.
 Bushey (Herts).—Hopkinson, J., 2.
 Bushveld, Transvaal.—Humphrey, W. A., 2.
 — Sandstone Series, Transvaal.—Kynaston, H.
 But Valley (Venetia).—Gortani, M.
 Büttel (Schleswig-Holstein).—Clausen, H.
 Byans (Himalayas).—Diener, C.
Bythinia.—Schlosser, M.
 Cacolite.—Cornu, F.
 Cadillac (Gironde).—Repelin, J., 2.
 Cadmium.—Speier, P.
 Cadore Valley (Venetia).—Caneva, G.
 Caen (Normandy).—Bigot, A., 1 & 2.
 Caermarthenhire.—Strahan, A., 1 & 3.
 Caithness (Scotland).—Cuttriss, S. W., 3; Lewis, F. J., 3.
 Calabria (Italy).—Baratta, M., 1 & 2; Hobbs, W. H., 3 & 6; Mercalli, G.; Omori, F., 6; Rizzo, G. B., 2; Rudzki, M. P.
 Calamine, German Rhineland.—Freise, F.
 —, Poland.—Revutzki, E.
Calamites.—Matthew, G. F.; Sterzel, J. T.
Calamitina.—Sterzel, J. T.
Calamophyllia.—Koby, F.
Calamostachys.—Sterzel, J. T.
 'Calcaire grossier,' Paris Basin.—Combes, P., *fil.*, 3 & 4.
 Calcareous algæ, Carboniferous.—Schubert, R. J., 5.
 — nodules.—Combes, P., *fil.*, 2; Stopes, M. C., 2; Weiss, F. E.; see also Coal-balls, concretions, &c.
 — tufa, Lillebonne.—Brognard, L.
 Calcite, granite-bearing, Silesia.—Rimann, E.
 —, Brevig.—Kreutz, S.
 — crystals.—Eakle, A. S.; Rinne, F.
 —, Donetz Basin.—Samoilov, Y.
 —, Greenland.—Bøggild, O. B.
 —, Hungary.—Franzenau, A.

- Calcite, liquid inclusions in Traversella.
—Spezia, G.
—, New Jersey.—Whitlock, H. P., 5.
—, New York.—Whitlock, H. P., 1, 4, 5, & 6.
—, Simpon massif.—Abraham, A.
—, Texas.—Sachs, A.
—, Tharandt.—Cesáro, G.
Calcium-minerals.—Dallman, A. A.; Sommerfeldt, E., 5.
Caledonian folds.—Reusch, H.; Simoens, G., 5.
Caledonite, Co. Wicklow.—Russell, A.
Cales Dale (Derby).—Fox, W. S., 1 & 2.
California (U.S.A.).—Arnold, R., 2, 3, & 5; Ball, S. H.; Bateson, C. E. W.; Blake, W. P.; Bovard, J. F.; Branner, J. C.; Crandall, R., 1 & 2; Carey, E. P.; Darton, N. H., 6; Day, D. T.; Diller, J. S., 2; Doolittle, J. E.; Edman, J. A.; Emmons, S. F., 3; Gilbert, G. K., 3; Holway, R. S.; Jordan, D. S.; Lawson, A. C., 1-3; Lee, W. T., 1 & 2; Leyst, E.; Longridge, C. C.; Louderback, G. D., 2; Marx, C. D.; Merriam, J. C., 3; Omori, F., 3, 4, & 8; Pavlov, A. P.; Redway, J. W.; Ritter, E. A.; Sachs, A.; Smith, J. P., 1 & 2; Taft, H. H.; Townley, S. D.; Wemple, E. M.; *see also* Petroleum, &c.
—, Gulf of.—Davis, A. J.
—, Lower (Mex.).—Lee, W. T.
Californite.—Kœchlin, R.
Callao Bay (Peru).—Berthon, P.
Calliostoma.—Ihering, H. von, 2.
Callipteris.—Sterzel, J. T.; Zeiller, R.
Callograptus.—Hind, W., 2.
Callopora.—Bassler, R. S.
Callovian, Chile.—Courty, G., 3.
—, *See also* Jurassic.
Calodontotherium.—Roth, S., 3.
Calomel.—Hillebrand, W. F., 3.
Calostylis.—Færste, A. F.
Calvados (Normandy).—Cossmann, M., 4; Heurteau, C. E.
Calvi, Mte. (Tuscany).—Merciai, G., 2.
Calycites.—Hollick, A.
Calymene.—Reed, F. R. C.
Calyptæra.—Ihering, H. von, 2.
Camarocrinus.—Fritsch, A., 2; Reed, F. R. C.
Camarotoechia.—Dun, W. S.
Camborne (Cornwall).—Hill, J. B., 2; MacAlister, D. A., 1 & 2.
Cambrian, California.—Darton, N. H., 6.
—, China.—Willis, B., 8.
—, Massachusetts.—Shimer, H. W., 2.
—, N.W. Highlands.—Peach, B. N.
—, Nova Scotia.—Poole, H. S., 3.
—, Thuringia.—Walther, K.
—, Vermont.—Edson, G. E.
Cambridge (England).—*See* CAMBRIDGE.
Cameroceras.—Ruedemann, R., 1 & 2.
Campania (Italy).—Galdieri, A.
Campine (Belgium).—Van Ertborn, O., 8.
Campinian, Flanders.—Mourlon, M., 7.
Campolongo, 1907 (Bernina Alps).—Linck, G.
Camptosaurus.—Gilmore, C. W., 3.
Campylognathus.—Plieninger, F.
Canada, Arctic.—Low, A. P.
—, coal-supply.—Ells, R. W., 1-2.
—, geology, 1905.—Ami, H. M.
—, Laurentian.—Adams, F. D.
—, magnetite.—Harrington, B. J.
—, mining in Western.—Lamb, H. M.
—, Rocky Mts.—Scherzer, W. H.
—, *See also* Alberta; CANADA, Geol. Surv.; Devonian, &c.
Cananea (Mex.).—Brinsmade, R. B., 2.
Cancellaria.—Arnold, R., 3; Ihering, H. von, 2; Schepman, M. M.; Woods, H.
Canfieldite.—Canfield, F. A.
Caninia.—Stuckenberg, A.
Canis.—Roth, S., 2.
Cannapora.—Chapman, F., 8.
Cañon-like valleys, origin of.—Harmer, F. W.
Cañons, New South Wales.—Andrews, E. C.
—, Victoria.—Leach, J. A.
Can Pey (Pyénées-Orientales).—Friedel, G.
Cantal (France).—Mayet, L.; Mortillet, A. de; Rutot, A., 5.
Canterbury Plains (N.Z.).—Hilgendorf, F. W.
Cape Colony (S. Afr.).—Anon., 31; Beck, R.; Davis, W. M.; Du Toit, A. L., 1-4; Hatch, F. H., 1 & 2; Juritz, C. F.; Kitchin, F. L.; Launay, L. de; Lomas, J., 4; Macco, A.; Rastall, R. H., 3; Rathbone, E. P.; Reed, F. R. C., 3 & 7; Rogers, A. W., 1-6; Schwarz, E. H. L., 1-9; Seeley, H. G., 2; Seward, A. C., 3; Voit, F. W., 1 & 2; *see also* CAPE COLONY, Geol. Comm.; & S. African Museum, &c.
Cape Verde Is. (Atlantic).—Drygalski, E. von; Harker, A.
Cape York Peninsula (Queensl.).—Cameron, W. E.
Capes, cusped.—Ruehl, A.
Capri I. (Bay of Naples).—Giordano, F.; Lorenzo, G. de.
Caprona (Tuscany).—Vinassa de Regny, P., 2.
Capulus.—Beede, J. W.; Steinmann, G., 8.
Carabocrinus.—Hudson, G. H.
Caranx.—Priem, F., 4.
Carbonado, Brazil.—Derby, O. A.
Carbonate-rocks, analysis of.—Hillebrand, W. F., 2.
Carbonic acid, climates &.—Willis, B.
Carboniferous, Alaska.—Kindle, E. M.
—, Algeria.—Flamand, G. B. M., 3.
—, Appalachian Basin.—Stevenson, J. J.
—, Baden.—Sterzel, J. T.

- Carboniferous, Bristol.—Bolton, H.
 —, China.—Willis, B., 8.
 —, classification.—Hickling, G., 2.
 —, Colorado.—Finlay, —, 2.
 —, Cornwall.—Arber, E. A. N., 3.
 —, Corsica.—Deprat, J., 3.
 —, Dalmatia.—Bukowski, G. von;
 Mertens, P. J.; Schubert, R. J., 5.
 —, Derbyshire.—Woodward, H., 3.
 —, Devon.—Arber, E. A. N.; Rogers,
 I.
 —, Durham.—Court, G.
 —, Gothland.—Moberg, J. C., 4.
 —, Hainault.—Cambier, R.; Cornet,
 J., 3-6 & 8.
 —, Indiana.—Cumings, E. R.
 —, Isle of Man.—Hind, W.
 —, Lancashire.—Dawkins, W. B., 2;
 Watson, D. M. S.; Woodward, H., 5.
 —, lavas, Linlithgow.—Falconer, J. D.
 —, Liège.—Renier, A., 2 & 6.
 —, Missouri.—Weller, S.
 —, New Mexico.—Gordon, C. H., 1
 & 2.
 —, New South Wales.—Etheridge, R.,
fl.
 —, Palencia.—Sánchez Lozano, R., 3.
 —, Pennsylvania.—Kemp, J. F., 3.
 —, Rhenish Prussia.—Westermann,
 H.
 —, Russia.—Bogoslovski, N.; Stucken-
 berg, A.; Zaleski, M. D.
 —, Sahara.—Flamand, G. B. M., 2.
 —, Scotland.—Forsyth, D., 5.
 —, South Australia (N. Terr.).—Ethe-
 ridge, R., *fl.*, 2.
 —, Sumatra.—Tobler, A.
 —, Westmorland, &c.—Garwood, E.
 J.
 —, Yorkshire.—Bond, J. W.; Hughes,
 T. McK., 1 & 2; Vaughan, A., 3;
 Watson, D. M. S.; Wellburn, E. D.
 —, zones in the.—Hind, W., 3;
 Vaughan, A., 2 & 4.
 Carboniferous Limestone, Anglesey.—
 Greenly, E.
 —, Derbyshire.—Arnold - Bem-
 rose, H. H.
 —, Ireland.—Vaughan, A., 4.
 —, Liège.—Destine, P.; Gue-
 rich, G., 4.
 —, Missouri.—Broadhead, G. C.
 —, Namur.—Guerich, G.
 —, Ohio.—Orton, E., Jun.
 —, Somerset.—Sibly, T. F.;
 Vaughan, A., 4.
 —, structure of.—Jones, T. A.
 —, Westmorland, &c.—Gar-
 wood, E. J.
 —, Yorkshire.—Wilmore, A.
 Carcharias.—Priem, F., 2 & 4.
 Carcharodon.—Jordan, D. S.; Priem,
 F., 2 & 4.
 Cardiaster.—Woods, H.
 Cardiocarpus.—Sterzel, J. T.
 Cardioceras.—Neumann, J.
 Cardiomorpha.—Clarke, J. M., 3.
 Cardiopteris.—Peola, P.
 Cardita.—Ihering, H. von, 2; Tokunaga,
 S.
 Cardium.—Bogachev, V.; Ihering, H.
 von, 2; Tokunaga, S.; Woods, H.
 Caribbean Sea.—Van de Wiele, C.
 Carinthia (Austria).—Dreger, J.; He-
 ritsch, F.; Muellner, A.; Scupin, H.;
 Spitz, A.
 Carnallite.—Busz, K., 2; Rinne, F.
 Carnic Alps.—Kuenzli, E.; *see also*
 Alps.
 Carniola (Austria). — Hoernes, R.;
 Muellner, A.
 Carnivora, Tertiary.—Portis, A., 6.
 Carnotite, S. Australia.—Mawson, D., 2.
 Carolina (Transvaal). — Humphrey, W.
 A.
 Carolina, North (U.S.A.).—Berry, E. W.;
 Graton, L. C.; Johnson, B. L.;
 Merrill, G. P., 3 & 5.
 —, South (U.S.A.).—Graton, L. C.;
 Harboe, E. G., 3; Hobbs, W. H., 9.
 Carpathian Mts.—Archer, E.; Lima-
 nowski, M.; Neumann, J.; Pálffy, M.
 von; Wisniowski, T.
 Carpites.—Perkins, G. H., 5.
 Carpolithes.—Perkins, G. H., 5; Yoko-
 yama, M.
 Carrara (Tuscany).—Achiardi, G. d'.
 Carsphairn (Kirkcudbright).—Forsyth,
 D.
 Carydium.—Clarke, J. M., 3.
 Caryocrinus.—Reed, F. R. C.
 Cascina (Tuscany).—Vinassa de Regny,
 P.
 Caselle (Piedmont).—Roccati, A., 2.
 Cassel (Hesse).—Hornstein, F. F., 1 & 2.
 Cassianella.—Waagen, L., 4.
 Cassidulina.—Chapman, F., 6.
 Cassidulus.—Woods, H.
 Cassiterite.—Pearce, R.; Spencer, L. J.,
 2.
 Castellastua (Dalmatia).—Bukowski, G.
 von.
 Castro, Grotte di.—*See* Grotte di Castro.
 Casts, processes for taking.—Bather, F.
 A., 2; Nathorst, A. G., 3; Slocum,
 A. W.
 Catalonia (Spain).—Cossmann, M., 2;
 Fliche, P.; Washington, H. S., 2.
 Catapleite, Greenland.—Beggild, O. B.
 Caterpillar-like form in Zeia biotite-
 gneiss.—Ahnert, E. E., 3.
 Catini, Mte. (Tuscany).—Cocchi, I.
 Catozone.—Perner, J.
 Caturus.—Heineke, E.
 Caucasus (Russia).—Bogdanovich, K. I.;
 Chernyshev, T.; Freise, F., 2; Golu-
 biatnikov, D. V.; Maximov, W.; Mi-
 khaïlovski, G. P.; Ogilvi, A. N.;
 Orlov, A., 46; Sinzov, J., 2; Surgunov,
 N. I.
 Caulopteris.—Zeiller, R.
 Caverns & caves, Appenzell.—Böschler,
 E.
 —, Ariège.—Martel, E. A., 3.
 —, Bavaria.—Spandel, E.
 —, Belgium.—Cosyns, G.

- Caverns & caves, California.—Furlong, E. L.
 —, Cantal & Charente.—Mortillet, A. de.
 —, Cleadon.—Woolacott, D., 3.
 —, Clevedon.—Davies, H. N.
 —, Derbyshire.—Fox, W. S., 1 & 2.
 —, fossil fauna.—Carey, A. E.
 —, Gironde.—Labrie, J.
 —, Indiana.—Hahn, W. L.
 —, Jura (French).—Fournier, E., 4.
 —, Kentucky.—Purdue, A. H.
 —, Kesslerloch.—Herscheler, K.
 —, Lisbon.—Engerrand, G.
 —, Mentone.—Flamand, G. B. M.; Rutot, A., 3; Van Ertborn, O., 10.
 —, New York.—Grabau, A. W., 3; *see also* New York State Mus., 3.
 —, Oise.—Mary, A.
 —, Patagonia.—Lehmann - Nitsche, R., 1 & 2; Roth, S., 2.
 —, Pyrenees.—Lamarque, H.
 —, Schaffhausen.—Nüesch, J.
 —, Victoria.—Hall, T. S., 7; Kitson, A. E., 6.
 —, Walton.—Reynolds, S. H., 3.
 —, Western Australia.—Bottomley, W. B.
 —, Yorkshire.—Cuttriss, S. W., 4.
Ceanothus.—Hollick, A.
 Celebes (D.E.I.).—Schepman, M. M.
 Celestite.—Cesaro, G.; Popov, S. P.; Sommerfeldt, E., 5.
 Cements, United States.—Emmons, S. F., 4.
 Cenomanian, Morocco.—Kilian, W., 7.
 Controlite, Sardinia.—Lovisato, D.
 Cephalopoda, Carboniferous.—Bolton, H.; Cumings, E. R., 2; Etheridge, R., *fil.*, 2.
 —, Cretaceous.—Bogdanovich, K. I.; Crick, G. C., 1-3 & 5; Ihering, H. von, 2; Etheridge, R., *fil.*, 3; Gussmann, —; Paulcke, W.; Smoleński, G.; Till, A., 5; Woods, H.
 —, Devonian.—Anon., 35; Clarke, J. M., 3; Walther, K.
 —, Jurassic.—Buckman, S. S., 5; Fucini, A., 2; Neumann, J.; Steinmann, G.; Till, A., 2-5.
 —, Silurian.—Reed, F. R. C.; Ruedemann, R., 1 & 2; Siemiradzki, J. von.
 —, Tertiary.—Bellardi, L.; Ihering, H. von, 2; Sacco, F.; Till, A., 5.
 —, Triassic.—Behm, G., 3; Diener, C., 1 & 2; Fritsch, K. von; Langenhan, A.; Reis, O. M.
 —. *See also* Ammonites, &c.
Cepræa.—Schepman, M. M.
 Ceram (D.E.I.).—Koevesligethy, R. von, 2.
Ceramopora & *Ceramoporella*.—Bassler, R. S.
Ceratites.—Diener, C., 2; Martelli, A., 2; Reis, O. M.; Schmidt, M., 3 & 4.
Ceratocephala.—Clarke, J. M., 3.
Ceratodus.—Miall, L. C.
Ceratopyge.—Post, L. von.
Ceratoxodon.—Ameghino, F., 4.
Cercopithecus.—Roth, S.
 Ceres (Cape Colony).—Schwarz, E. H. L., 2.
 Cerithidea, Eocene.—Boussac, J., 6.
Cerithiopsis.—Ihering, H. von, 2.
Cerithium.—Dall, W. H., 2; Icke, H.; Schepman, M. M.; Tokunaga, S.; Vinassa de Regny, P., 2; Wolleemann, A.
Cervus.—Fox, W. S., 2; Roth, S., 3; Sheppard, T.; Van Ertborn, O., 8.
 Cetacea, Tertiary.—Abel, O.; Eastman, C. R., 2; True, F. W., 1 & 2.
 Cetina Basin (Dalmatia).—Kerner, F. von.
Cetorhynchus.—Abel, O.
 Cevadaes (Portugal).—Osann, A., 2.
 Ceylon.—Anon., 41; Blake, G. S.; *see also* CEYLON.
 Chablais Alps (Savoy).—Bonney, T. G.
Chatetes.—Stuckenberger, A.
 Chagos Archipelago (Indian Ocean).—Gardiner, J. S., 2.
 Chalco, Lake (Mexico).—Cayeux, L.
 Chalcopyrite, Japan.—Ford, W. E.
 —. *See also* Copper-pyrites.
 Chalk, as a building-stone.—Elsden, J. V., 2.
 —, Denmark.—Jessen, A.
 — fishes.—Woodward, A. S.; *see also* Fishes.
 —, Isle of Wight.—Gregory, J. W., 6.
 —, Kent.—Crick, G. C., 3; Sills, S.
 —, levels of water in the.—Baldwin-Wiseman, W. R.
 —, metamorphism of.—Gough, G. C.
 —, Rügen I.—Philippi, E.
 —, Trimmingham.—Howorth, Sir H. H.
 —, Yorkshire.—Crick, G. C.; Sherborn, C. D.
 Chalmersite.—Palache, C.
 Chalybite, Apuan Alps.—Manasse, E.
Chama.—Icke, H.
 Chamoson (Valais).—Schardt, H., 5.
 Champagne (France).—Lemoine, P., 6.
 Champlain Basin (N.Y.).—Hitchcock, C. H., 3; Hudson, G. H.; Ruedemann, R., 2; Woodworth, J. B., 2.
 Chang-Hia (Shantung).—Ruehl, A., 2; Willis, B., 7.
 Channel Islands.—Parkinson, J., 4.
 Channel Tunnel.—Barclay, T.; *see also* CHANNEL TUNNEL, 1-3.
 Chantilly-Paris Ry.—Ramond, G., 2.
Chara.—Karpinski, A. P., 2.
 Chard (Somerset).—Ussher, W. A. E.
 Charente (France).—Favraud, A.; Mortillet, A. de.
 Charente - Inférieure (France).—De-grange-Touzin, E.; Peyrot, —.
 Charleroi (Hainault).—Cambier, R.; Fourmarier, P.
 Charleston (S. Carolina).—Harboe, E. G., 3; Hobbs, W. H., 9.

- Charmouth (Dorset).—Lang, W. D., 3.
 Charnian, Leicestershire.—Keay, W.
 Charnwood Forest (Leicester).—Bennett, F. W.; Keay, W.; Stracey, B., 1 & 2;
see also BRITISH ASSOCIATION.
Chasmistes.—Jordan, D. S.
 Chauffour-les-Étréchy (Seine-et-Oise).—Court, G., 2.
Chaunograptus.—Clarke, J. M., 3.
 Chaux-d'Artier (Doubs).—Girardin, P.
 Chazy Formation, New York.—Cushing, H. P., 2; Hudson, G. H., 1 & 2; Ruedemann, R., 2.
 Chechna R. (Siberia).—Mikhailovski, G. P., 1.
 Cheddar (Somerset).—Sibly, T. F.
Cheirocrinus.—Reed, F. R. C.
Cheirotherium.—Beasley, H. C., 2.
Cheirurus.—Hudson, G. H.; Reed, F. R. C.
 Chelonia, Cretaceous.—Lambe, L. M.
 —, Tertiary.—Hay, O. P.; Stefano, G. de, 2.
Chelonobia.—Alessandri, G.
 Chemical composition of igneous rocks, method to obtain the.—Wade, A.
 — crystallography, text-book on.—Groth, P.
 Chemistry, geology &.—Jefferson, S.
 —, petrography &.—Sommerfeldt, E.
Chemnitzia.—Deninger, K.
 Chemung formation, New York.—Williams, H. S.
 Chennagiri (Mysore).—Slater, H. K.
Chenopus.—Ihering, H. von, 2.
 Cherbourg (Normandy).—Bigot, A., 2.
 Chert, Dartford.—Newton, E. T.
 —, Victoria.—Howitt, A. M.
 Chert Series, Malay States.—*See* MALAY STATES, Geol. Rep.
 Cheshire.—Beasley, H. C., 2; Cuttriss, S. W., 2; De Rance, C. E.; Harmer, F. W.; Pritchard, S. H., 3.
 Chester (Mass.).—Palache, C.
 Chiastolite, S. Australia.—Anon., 30.
 Chibougamau (Quebec).—Low, A. P., 2.
 Chihuahua (Mexico).—Escobar, R.; Hovey, E. O., 1 & 2.
 Chile (S. Am.).—Court, G., 3; Douvillé, R., 10; Evans, O. H.; Hauthal, R.; Henricquez, H.; Mainka, C.; Oldham, R. D., 5; Omori, F., 10; Pécsi, A.; Steffen, H., 1 & 2; Upham, W., 2; Villareal, F.
 Chi-Li (China).—Willis, B., 6; Wingate, A. W. S.
 Chillon River (Peru).—Turner, W.
 China.—Browne, F.; Bruce, C. D.; Knip, A.; Lantenois, H.; Lorenz, T.; Ruehl, A., 2; Weller, S., 3; Willis, B., 3, 6-8; Wingate, A. W. S.; Yokoyama, M.
 Chindwin (Burma).—Oldham, R. D.
Chione.—Ihering, H. von, 2.
 Chircombe Bridge (Devon).—Whidborne, G. F.
Chisternon.—Hay, O. P.
 Chitaldrug (Mysore).—Sampat-Iyengar, P.
Chiton.—Reed, F. R. C., 4.
 Chitry (Yonne).—Peron, A., 2.
Chlamys.—Ihering, H. von, 2; Schepman, M. M.; Ugolini, R., 3.
 Chlorite, Donetz basin.—Samoilov, Y. —, Kamp Valley.—Firtsch, G.
 Chloritoid, Cyclades.—Ktenas, K. A., 2.
 Chlormanganokalite & Chlornatrokalite.—Köchlin, R.
 Chloroplatinate.—Morozewicz, J.
Chondrostroma.—Guerich, G., 1 & 4.
Chonetes.—Boulton, H.; Clarke, J. M., 3; Reed, F. R. C.; Scupin, H.; Stuckenberg, A.; Walther, K.; Weller, S.
Chonophyllum.—Første, A. F.
 Chrast (Bohemia).—Fritsch, A.
 Christiania (Norway).—Brøgger, W. C., 2.
 Chromite, Rhodesia.—Crook, T., 5.
 Chromium-ores, occurrence of.—Nicolardot, P., 4.
 Chrysochloridæ, Tertiary.—Matthew, W. D.
 Chrysolite, Donetz Basin.—Samoilov, Y. —, St. John's I. (Red Sea).—Michel, L.
Chthamalus.—Alessandri, G.
 Chudleigh (Devon).—Whidborne, G. F.
 CHURCHILL, G. C., *Obit.*—*See* Anon., 7; Geikie, Sir A., 2.
 Cicada, Tertiary.—Cockerell, T. D. A., 2.
 Cichlidæ, Tertiary.—Savage, H. E.
Cidaris.—Lambert, J.; Whitfield, R. P., 2.
Cimolichthys.—Priem, F., 2 & 4.
Cimoliosaurus.—Fritsch, A.
Cincta.—Buckman, S. S., 2 & 6.
Cineilia.—Wollemann, A.
 Cinnabar, California.—Sachs, A.
Cinnamomum.—Hollick, A.; Perkins, G. H., 5.
Cinulia.—Wilckens, O., 2; Wollemann, A.
 Circle (Alaska).—Prindle, L. M.
 Cirripedia, Cretaceous.—Alessandri, G.
 —, Tertiary.—Alessandri, G.
 Civilization, oases &.—Pumpelly, R.
Cladodus & *Cladoselache*.—Eastman, C. R., 3.
Cladophlebis.—Yokoyama, M.
Clanculus.—Broili, F., 3.
 Clansayes fauna, Hanover, &c.—Stolley, E.
 Clapham (Yorks).—Travis, C. B., 3.
Clathropteris.—Seward, A. C., 2.
Clava.—Dall, W. H., 2; Schepman, M. M.
 Claverley boring (Staffs).—Gibson, W., 2.
Clavilithes.—Cossmann, M., 3.
Clavulina.—Chapman, F., 6.
 Claxheugh (Durham).—Woolacott, D.
 Clay, Allschwyl & Altkirch.—Schmidt, C., 9.
 —, Boston Cretaceous (Mass.).—Clapp, F. G.
 — deposits.—Veatch, O.

- Clay, Scania.—Westergård, A. H.
 —, Stoke Goldington.—Thompson, B., 3.
 Clay-galls, Bunter sandstone.—Blanck, E.; *see also* Concretions, &c.
 Claydon (Norfolk).—Slater, G.
 Clays, Connecticut.—Loughlin, G. F.
 —, Havre plateau.—Babeau, L., 1 & 2.
 —, Hungary.—Kalesinszky, A. von.
 —, Kentucky.—Gardner, J. H.; Peter, R.
 —, New York.—Newland, D. H.
 —, Oceanic.—Clarke, F. W.
 —, Switzerland.—*See* SWITZERLAND, Beiträge; *also* Wehrli, L.
 —, Texas.—Ries, H.
 —, United States.—Emmons, S. F., 3 & 4; *see also* Connecticut, &c.
 Claysville (Pa.).—Griswold, W. T.
 Cleadon (Durham).—Woolacott, D., 3.
 Cleavage, slaty.—Becker, G.
 Clermont (Queensl.).—Ball, L. C.
 CLEVE, P. T., *Obit.*—*See* Euler, H.
 Clevedon (Somerset).—Davies, H. N.; Hinton, M. A. C.; Reynolds, S. H., 3.
 Cleveland (Yorks).—Elgee, F., 1 & 2; Pratt, A. E.; Sumner, E. J.
 Cleveland Dyke, Yorks.—Smith, S.
 Cliffs, Normandy.—Lennier, G.
Climacograptus.—Hall, T. S.
 Climates, carbonic acid &.—Willis, B.
 —, Jurassic epoch.—Burekhardt, C.
 —, oceanic control of.—Gregory, J. W., 1 & 2.
 —, Permo-Carboniferous.—White, D., 2.
 —, Quaternary.—Gavelin, A.
 —, soil-temperatures &.—Kuehl, W.
 —, variations of.—Gregory, J. W., 2.
Clinoceras.—Siemiradzki, J. von.
 Clinton Co. (N.Y.).—Whitlock, H. P., 6.
Clionites.—Diener, C.
Clitambonites.—Reed, F. R. C.
 Cloncurry (Queensl.).—Ball, L. C., 3.
Clymenia.—Raymond, P. E.
Clypeaster.—Lambert, J.; Nelli, B., 2.
Clypeus.—Grit, Cotteswold Hills.—Woodward, H., 2.
 Coal, Alaska.—Brooks, A. H., 2 & 3; Collier, A. J.; Martin, G. C.; Moffit, F. H.
 —, Appalachian, greatest thickness of.—Ashley, G. H.
 —, Argentina.—Ducloux, E. H.
 —, Birmingham.—Harrison, W. J.
 —, British Columbia.—Ashworth, J.; *see also* BRITISH COLUMBIA.
 —, British East Africa.—Crook, T., 6.
 —, British Isles.—Greenwell, A.
 —, Canada.—Ells, R. W., 2 & 3.
 —, classification of.—Greenwell, A., &c.
 —, Colorado.—Fenneman, N. M., 2; Headen, W. P., 1 & 2.
 —, Dakota.—Wilder, F. A., 2.
 —, Flanders.—Van Ertborn, O., 3.
 —, France.—Lemière, L.
 Coal, Galicia, Moravia, & Silesia.—Petrascheck, W., 2.
 —, Hainault.—Cornet, J., 4 & 8.
 —, India.—*See* INDIA, Dep. Mines.
 —, Japan.—Cunningham, W. B.; Mingaye, J. C. H.
 —, Kansas.—Haworth, E., 1 & 2.
 —, Kent.—Anon., 33; Dawkins, W. B., 1 & 3; Martin, E. A.
 —, Kentucky.—Crandall, A. R.; Peter, R.
 —, Manchuria.—Palibin, I. V., 4.
 —, Midland Counties, search for.—Gibson, W.
 —, Montana.—Rowe, J. P., 2.
 —, Natal.—*See* NATAL, Rep. Mining.
 —, Nebraska.—Barbour, E. H.
 —, New South Wales.—*See also* NEW SOUTH WALES, Dep. Mines; Taylor, T. G.
 —, New Zealand.—Harrison, L. H.; *see also* NEW ZEALAND, Dep. Mines, 1 & 2.
 —, Nova Scotia.—*See* NOVA SCOTIA, Dep. Mines.
 —, origin of.—Crampton, C. B.; Henslow, G.; Hoffmann, J. F.; Potonié, H., 3; Stahl, A. F.
 —, Peru.—Santolalla, F. M.
 —, Rhodesia.—Mennell, F. P., 2; *see also* RHODESIA.
 —, spontaneous combustion, effects of.—Lakes, A., 2.
 —, Tasmania.—*See* TASMANIA, Dep. Mines, 1-8.
 —, Tertiary.—Kerner, F. von, 2.
 —, Transvaal.—Mellor, E. T.; *see also* TRANSVAAL, Dep. Mines, 1 & 2.
 —, United States.—Emmons, S. F., 3.
 —, Utah.—Dern, J.
 —, Westphalia.—Stille, H., 2.
 —, Yunnan.—Lantenais, H.
 —, Zululand.—Seward, A. C., 6.
 —. *See also* Coalfields.
 Coal-balls, origin of.—Chapman, F., 4; Combes, P., *fil.*, 2; Stopes, M. C., 2 & 3; Watson, D. M.; Weiss, F. E.; *see also* Calcareous nodules, &c.
 Coal-Measures.—*See* Carboniferous, &c.
 Coalfields, Aix-la-Chapelle.—Westermann, H.
 —, Assam.—Simpson, R. R., 1 & 2.
 —, Australasia.—David, T. W. E.
 —, Ballycastle.—Cole, G. A. J., 2.
 —, Belgium.—Breton, L.; Renier, A., 4.
 —, Bristol.—Bolton, H.
 —, Derbyshire.—Horwood, A. R.; Strangways, C. F., 3.
 —, Durham & Northumberland.—Kirsopp, J., *fil.*
 —, French.—Bergeron, J., 2; Breton, L.; Lemièrre, L.
 —, Indwe.—Du Toit, A. L.
 —, Leicestershire.—Strangways, C. F., 3.

- Coalfields, Midland extensions of.—Lapworth, C.; Smith, A.; *see also* Derbyshire, Staffordshire, &c.
- , Nottinghamshire.—Horwood, A. R.
- , Orlau.—Michael, R., 3.
- , Pennsylvania.—Kemp, J. F., 3.
- , Saarbrücken.—Leppla, A., 3.
- , South Wales.—Strahan, A., 1-3.
- , Staffordshire.—Gibson, W., 2; Smith, A.; Tonge, J.; *see also* Midlands, &c.
- , Warwickshire.—Gibson, W., 2; Grayston, F. A.; Smith, A.; *see also* Midlands, &c.
- , Westphalia.—Bærtling, R.; Renier, A., 5.
- , Worcestershire.—Smith, A.
- , *See also* Coal.
- Coal mining.—Boulton, W. S.
- Coast, Denmark.—Vaupell, C.
- deposits.—Ruehl, A.
- depression, drainage &.—Branner, J. C.
- erosion.—Carey, A. E., 2; Cavis-Brown, J.; Carter, W. L.; Kassner, C.; Lennier, G.; Ruehl, A.; Wegemann, G.; Westgate, L. G.
- glaciation, Alaska.—Blackwelder, E., 2.
- sand movements.—Halligan, G. H.
- , Waterford Co.—Reed, F. R. C., 2.
- Coastal plains.—Davis, W. M., 6; Schwarz, E. H. L.
- Cobalt, Mexico.—Navarro, D. V.
- , Ontario.—Anon., 38; Bell, R.; Brock, R. W., 2; Campbell, W., 2.
- , Transvaal.—Beck, R., 3; Mellor, E. T., 4.
- Cobalt District (Ont.).—Anon., 38; Bell, R.; Van Hise, C. R.
- Coblentz (Rh.-Pruss.).—Leppla, A., 2; Rauff, H.
- Coblentzian, America (N.).—Clarke, J. M., 6.
- , Rhenish Prussia.—Fuchs, A.
- Cobleskill Valley (N.Y.).—Grabau, A. W., 3.
- Coburg, East (Victoria).—Armitage, R. W.; Leach, J. A.; Thiele, E. O., 3.
- Coccoderma*.—Heineke, E.
- Cochise Co. (Ariz.).—Kellogg, L. O.
- Coe, Glen (Argyle).—*See* Glencoe.
- Celacanthus*.—Rogers, I.
- Celidium*.—Clarke, J. M., 3.
- Celoclema*.—Bassler, R. S.
- Celospira*.—Shimer, H. W.
- Celostylina*.—Broili, F., 3.
- Celozona*.—Perner, J.
- Cenites*.—Siemiradzki, J. von.
- Cogne, Val di (Piedmont).—Gortani, M., 4.
- Colemanite.—Van 't Hoff, J. H.
- Collodion - imprints of fossils, &c.—Bather, F. A., 2; Nathorst, A. G., 3.
- , preservative for fossils.—Davies, A. M., 2.
- ‘Colluvial.’—Veatch, O.
- Colombia (S. Am.).—Bergt, W.; Douvillé, R., 11; Hettner, A.; Stille, H. Ward, H. A.
- Colombium.—Nicolardot, P., 2.
- Colonsay (Scotland).—Wilkinson, S. B.
- Colorado (U.S.A.).—Barker, F. L.; Brues, C. T.; Cannon, G. L.; Cockrell, T. D. A., 2-7; Cross, W., 2; Darton, N. H., 1 & 4; Emmons, S. F., 3-5; Erdmann, H.; Fenneman, N. M., 2; Finlay, G. I., 1 & 2; Headden, W. P., 1 & 2; Herrick, R. L., 2; Howe, E.; Kraus, E. H.; Lakes, A.; Lindgren, W., 2; Ritter, E. A., 2; Scholl, G. P.; Siebenthal, C. E.; Whitmell, C. T., 6.
- Colorado Plateau (Arizona).—Davis, W. M., 5.
- Colorado R. (N. Am.).—Davis, A. J.; Lee, W. T.; Redway, J. W., 2.
- Coloration in fossil shells.—Newton, R. B.
- Coloru (Sardinia).—Serra, A., 3.
- Colouring, artificial, of minerals.—Gaubert, P.
- Cols, Valais.—Lugeon, M., 2.
- Colubrella*.—Broili, F., 3.
- Columbella*.—Icke, H.
- Columbite.—Eakle, A. S.
- Comanchean Period, North America.—Martin, E. A., 5.
- Cominella*.—Ihering, H. von, 2; Wilckens, O., 2.
- Composita*.—Vaughan, A.
- Concentric structure, gold-nuggets with.—Liversidge, A.
- Conchidium*.—Dun, W. S.; Reed, F. R. C.
- Concretions, calcareous.—Abbott, G., 1 & 2; Chapman, F., 4; Stopes, M. C., 2 & 3.
- , eclogite.—Bonney, T. G., 5.
- , manganese.—Angelis d'Ossat, G. de, 2.
- , phosphatic.—Cayeux, L., 3 & 5.
- , siliceous.—Blanck, E.; Meunier, S., 2.
- , Sparnacian.—Combes, P., *fl.*, 2.
- , *See also* Calcareous, Coal-balls, Nodules, &c.
- CONDON, T., *Obit.*—*See* Washburne, C. W.
- Condros massif (Namur).—Breton, L.; Dorlodot, H. de.
- Cone, Vesuvius, 1906.—Deprat, J., 4.
- Cone-in-cone.—Broadhead, G. C.; Gresley, W. S.
- Conemaugh Formation, North America.—Stevenson, J. J.
- Conglomerates, Africa (South).—Cullis, C. G.
- , Alps.—Heim, A., 2.
- , Californian dome - structured.—Arnold, R., 2.
- , Forest of Dean.—Cullis, C. G.
- , Georgia, stretched.—McCallie, S. W.
- , Piedmont.—Bellini, R.; Martin, D., 2 & 3.

- Conglomerates, Nova Scotia.—Poole, H. S., 3.
 —, various types of.—Mansfield, G. R.
 —, Żurawica.—Łoziński, W. von, 3.
 —. See also Banket, Glacial conglomerates, &c.
 Congo Basin (Africa).—Cornet, J., 7; Levat, D.
Coniopteris.—Yokoyama, M.
 Connecticut (U.S.A.).—See CONNECTICUT, Geol. Surv., 1 & 2; also Barrows, H. K.; Fuller, M. L.; Gregory, H. E., 1 & 2; Hobbs, W. H., 8; Ledoux, A. R.; Loughlin, G. F.; Rice, W. N., 2.
 Connemara (Ireland).—Muff, H. B.
Conocardium.—Clarke, J. M., 3; Dun, W. S.; Walther, K.
 Conodonts, Carboniferous.—Smith, J.
 Conon R. (Scotland).—Hinxman, L. W.
Conotoma & *Conotrochus*.—Perner, J.
 Constance, Lake (Switzerland).—Kalkowsky, E.; Schmidle, —.
 Constantine (Algeria).—Savornin, J.
 Contact - metamorphism.—Chelius, C.; Cole, G. A. J., 3; Gæbert, C.; Hill, J. B., 1 & 2; Kretschmer, F.; Kynaston, H., 2.
 Continental shelf, Nova Scotia.—Poole, H. S., 5.
 — structure of North America.—Willis, B., 4.
 Continents, oceans &.—Arlt, T., 2 & 3.
 —, origin of.—Love, A. E. H., 1 & 2; Rice, W. N.
 —, permanence of.—Howarth, J. H.
 —, Tertiary.—Matthew, W. D., 2.
Conularia.—Clarke, J. M., 3; Courty, G., 3; Slater, Ida L.; Reed, F. R. C.
Conus.—Icke, H.; Schepman, M. M.
 Cooktown (Queensl.).—Cameron, W. E., 2.
 Coon Mt. (Ariz.).—Guild, F. N., 2.
 Copiapite.—Böeckh, H.; Scharizer, R.; Weinschenk, E.
Coposmæphyllum.—Deane, H.
 Copper, Alaska.—Brooks, A. H., 2; McConnell, R. G.
 —, Alsace.—Ungemach, H. L.
 —, Arizona.—Brinsmade, R. B.; Kellogg, L. O.
 —, Brazil.—Oliveira, S. de.
 —, British Columbia.—Brock, R. W.
 —, Canada.—Lamb, H. M.; Low, A. P., 2.
 —, Colorado.—Ritter, E. A., 2.
 —, Congo District.—Levat, D.
 —, Cornwall.—Collins, J. H.; Hill, J. B., 2; MacAlister, D. A., 1 & 2.
 —, deposition of.—Stokes, H. N.
 —, Færøe Is.—Cornu, F., 10.
 —, Finland.—Anon., 46.
 —, Harz.—Hoppe, O.
 —, & iron sulphides, secondary enrichment of.—Read, T. T.
 —, Mexico.—Brinsmade, R. B., 2; Emmons, S. F.
 —, Michigan.—Cumming, C. E.
 Copper, Nevada.—Bullock, W. S.
 —, New Jersey.—Lewis, J. V., 3.
 —, New South Wales.—See NEW SOUTH WALES, Dep. Mines.
 —, occurrence of.—Stelzner, A.
 —, Peru.—Klinge, G.; Velarde, C. E.
 —, Queensland.—Ball, L. C., 3.
 —, Sardinia.—Millosevich, F.
 —, Servia.—Iovanovitch, D.
 —, Spain.—Adán de Yarza, R.; Wood, R. H.
 —, sulphate of, crystals.—Bøeris, G.
 —, Switzerland.—Schmidt, C., 5.
 —, Tasmania.—See TASMANIA, Dep. Mines, 1-8.
 —, Vermont.—Perkins, G. H., 2.
 —, United States.—Emmons, S. F., 3; see also Michigan, &c.
 —, Utah.—Brinsmade, R. B., 4.
 —, Victoria.—Baragwanath, W., *fil.*, 2.
 —, Western Australia.—Simpson, E. S., 2; see also WESTERN AUSTRALIA, Dep. Mines.
 —, Wyoming.—Emmons, S. F., 4.
 —, Yunnan.—Lantenois, H.
 Copper-pyrites.—Beckenkamp, J.; Ford, W. E.; Truchot, P.; Reinhold, F., 2.
 Coprolites, Carboniferous.—Fritsch, A., 2.
 Coquimbite.—Scharizer, R.
 Coral-reefs, Bermuda.—Verrill, A. E.
 Coral-rocks, Barbados.—Harrison, J. B.
 Corallian, Buckinghamshire.—Davies, A. M.
 Corals, Carboniferous.—Brown, T. C.; Cumings, E. R., 2; Etheridge, R., *fil.*, 2; Stuckenberga, A.; Vaughan, A.
 —, Cretaceous.—Oppenheim, P.
 —, Devonian.—Anderson, G. E.; Brown, T. C.; Clarke, J. M., 3; Walther, K.
 —, Jurassic.—Koby, F.
 —, Silurian.—Chapman, F., 8; Føerste, A. F.; Linné, C., 3; Reed, F. R. C.; Siemiradzki, J. von.
 —, Tertiary.—Oppenheim, P., 2; Vadász, E.; Vaughan, T. V.
 —, Triassic.—Bøhm, G., 3; Schmidt, M., 3.
 Corbeaux Cave (Ariège).—Martel, E. A., 3.
Corbicella.—Woods, H., 2.
Corbicula.—Ihering, H. von, 2.
 Corbières (France).—Doncieux, L.
Corbula.—Ihering, H. von, 2; Wilckens, O., 2.
Cordaites.—Sterzel, J. T.; Zeiller, R.
Cordania.—Clarke, J. M., 3.
 Cordierite.—Muegge, O.
 Cordylite, Greenland.—Bøegild, O. B.
 Cork Co. (Ireland).—Hinch, J. de W., 2; Welch, R.
 Cornbrash, England.—Blake, J. F.
Cornuspira.—Chapman, F., 6; Etheridge, R., *fil.*, 2.
 Cornwall.—Arber, E. A. N., 3; Bather, F. A., 4; Butler, F. H.; Carter, W.

- L., 2; Collins, J. H., 1 & 2; Cuttriss, S. W., 2; Fox, H.; Henglein, M.; Hill, J. B., 1 & 2; MacAlister, D. A., 1 & 2; Reid, C., 1 & 2; Walter, K.; Warren, S. H., 2; Whitley, D. G.
- Coronadite.—Köchlin, R.
- Coronilla*.—Perner, J.
- Coronula*.—Alessandri, G.
- Corrèze (France).—Lapparent, A. de, 3.
- Corryraor Group, Tyrone.—Fearnside, W. G., 3.
- Corryong (Victoria).—Kitson, A. E., 3.
- Corsari, Acqua dei (Palermo).—Salinas, E., 1 & 2.
- Corsham (Wilts).—Anon., 44.
- Corsica.—Deprat, J., 1-3.
- CORTI, B., *Obit.*—See Taramelli, T., 2.
- Corundum, Colorado.—Finlay, G. I.
- , Mysore.—Sambasiva-Iyer, V. S.
- , New Caledonia.—Romel, A. de.
- Cotteswold Hills (Gloucester).—Richardson, L., 8; Woodward, H., 2.
- Cottian Alps.—See Alps.
- Cotumite.—Zambonini, F.
- COURTY, G., works by.—See COURTY, G., 4.
- Couvin (Namur).—Maillieux, E.
- Cox's Bight (Tasmania).—Twelvetrees, W. H.
- Coyote Creek (Cal.).—Branner, J. C.
- Craighall (Transvaal).—Wagner, P. A.
- Craspedites*.—Prigorovski, M.
- Craspedophyllum*.—Anderson, G. E.
- Crassatellites*.—Ihering, H. von, 2; Woods, H.
- Crassinella*.—Ihering, H. von, 2.
- Crater, Coon Mt.—Guild, F. N., 2.
- Craters, Arizona, &c.—Keyes, C. R.
- , Chindwin explosion.—Oldham, R. D.
- , Hawaii.—Anon., 36.
- , See also Volcanoes, &c.
- Craven District (Yorks).—Wilmore, A.
- Crayford (Kent).—Chandler, R. H.
- Creil-Paris Ry.—Ramond, G., 2.
- Cremona (Lombardy).—Stefano, G. de, 3.
- Crenella*.—Ihering, H., von, 2.
- Creodonta, Tertiary.—Lydekker, R., 4; Matthew, W. D., 3.
- Cretaceous, Alabama.—Smith, E. A.
- , Alberta.—Dowling, D. B.
- , Algeria.—Blayac, J.
- , America (North).—Martin, E. A., 5.
- , America (South).—Berry, E. W., 3; Douvillé, R., 11; see also Argentina, Brazil, Patagonia, &c.
- , Aquitaine.—Douvillé, H., 3.
- , Argentina.—Ihering, H. von, 2; Steinmann, G., 8.
- , Arkansas & Louisiana.—Veatch, A. C.
- , Astrakhan.—Rehbinder, B.
- , Austria (Upper).—Lambert, J., 2.
- , Austrian Alps.—Felix, J., 2.
- , Balkan Peninsula.—Oppenheim, P.
- , Baluchistan.—Vredenburg, E. W., 4.
- Cretaceous, Bohemia.—Fritsch, A.; Petrascheck, W.; Scupin, H., 2.
- , Brazil.—Mawson, J.
- , California.—Crandall, R.
- , Cape Colony.—Kitchin, F. L.
- , Caucasus.—Bogdanovich, K. I.
- , China.—Willis, B., 8.
- , Dauphiné.—Kilian, W., 4; Stolley, E.
- , distribution of the.—Frech, F., 3.
- , Dorset.—Lang, W. D., 3.
- , Enns Valley.—Geyer, G.
- , Galicia.—Novak, J.; Smolenski, G.; Wisniowski, T.
- , Germany (North).—Kœnen, A. von, 3; Mueller, G.; Wollemann, A.; see also Hanover.
- , Greece.—Ktenas, K. A.
- , Hanover.—Collet, L. W.; Harbort, E.
- , Isle of Wight.—Gregory, J. W., 6.
- , Madagascar.—Lemoine, P., 4; Thevenin, A., 2 & 3.
- , Massachusetts.—Clapp, F. G.
- , Morocco.—Kilian, W., 6 & 7.
- , New Mexico.—Lee, W. T., 4.
- , New York.—Hollick, A.
- , Natal.—Crick, G. C., 2.
- , Oregon.—Diller, J. S.
- , Patagonia.—Ameghino, F., 3; Paulcke, W.; Steinmann, G., 14; Wilckens, O., 1 & 2.
- , Pondoland.—Woods, H.
- , Saxony & Silesia.—Scupin, H., 2.
- , South Australia (N. Terr.).—Ethe-ridge, R., *fil.*, 2.
- , Sumatra.—Tobler, A.
- , Switzerland.—Baumberger, E.; Heim, A.; Jacob, C., 2; Mayer-Eymar, K.; Stolley, E.
- , Tremiti Is.—Bassani, F., 2.
- , Württemberg.—Gussmann, —.
- , Yorkshire.—Danford, C. G.; Sherborn, C. D.; Stather, J. W.
- , Zululand.—Crick, G. C., 2.
- Crete.—Chalikiopoulos, L.
- Creusot (Saône-et-Loire).—Zeiller, R.
- Crich (Derby).—See GREAT BRITAIN, Geol. Surv.
- Crimea (Russia).—Fersmann, A., 1 & 3; Popov, S. P.
- Crinoidea, Carboniferous.—Cumings, E. R., 2; Stuckenberg, A.
- , Cretaceous.—Dibley, G. E.
- , Devonian.—Drevermann, F.; Walther, K.
- , Jurassic.—Fucini, A., 2; Whitfield, R. P., 2.
- , Silurian.—Bather, F. A., 4; Fritsch, A., 2; Hudson, G. H., 1 & 2; Martin, H. T.; Reed, F. R. C.; Siemiradzki, J. von.
- Crioceras*.—Danford, C. G.; Sinzov, J., 2.
- Cripple Creek (Colo.).—Lindgren, W., 2.
- Croatia.—Gorjanović-Kramberger, D., 2; Gorjanović-Kramberger, K.

- Crocoidolite, Siberia.—Tschirwinski, P.
 Crocodile River (S. Afr.).—Humphrey, W. A., 2.
 Crocodiles, Jurassic.—Ammon, L. von.
 Cromarty (Scotland).—Peach, B. N.
 Cromfordite.—Cesàro, G.
 Cross Fell (Cumberland).—Lewis, F. J., 3.
 Crowborough (Sussex).—Herries, R. S., 2.
 Crow's Nest (B.C.).—Ashworth, J.
 Croxley Green (Herts).—Hopkinson, J., 2.
 Croydon (Queensl.).—Dunstan, B., 3 & 4.
 Croydon (Victoria).—Chapman, F., 2.
 Crozet Is. (Indian Ocean).—Drygalski, E. von.
Cruschedula.—Ameghino, F.
 Crustacea, Carboniferous. — Woodward, H., 3, 4, 6, & 7.
 —, Cretaceous. — Alessandri, G.; Wilckens, O., 2.
 —, Jurassic.—Schultze, E.; Woodward, H., 2.
 —, Silurian.—Linné, C., 3; Reed, F. R. C., 4.
 —, Tertiary.—Alessandri, G.; Checchia-Rispoli, G., 2; Shattuck, G. B.
 —. *See also* Ostracoda, Trilobites, &c.
Cryphæus.—Schmidt, W. E.
Cryptocenia.—Koby, F.
Cryptocarpa.—Deane, H.
Cryptoplocus.—Deninger, K.
Cryptozoon.—Seely, H. M., 2 & 3.
 Crystalline limestone, Reinbach Valley.
 —Cornu, F., 9.
 —platform of Southern Russia.—Laskarev, V.
 —rocks, Anglesey.—Greenly, E., 3 & 4.
 —, California.—Carey, E. P.
 —, Cyclades.—Ktenas, K. A., 2.
 —, formation of.—Holmquist, P. J.
 —, Languedoc.—Bergeron, J.
 —, Nigeria.—Parkinson, J., 2.
 —, Norway.—Reusch, H., 4.
 —, pebbles in Vienna Flysch.—Berwerth, F.
 —schists, classification of.—Grubermann, U.
 Crystallography, textbook on.—Groth, P.; *see also* INTERNAT. CAT. SCI. LIT.
 Crystals, anhydrite.—Berg, G.
 —, axes of.—Evans, J. W., 7.
 —, composite.—Goldschmidt, V.
 —, etched figures on.—Sommerfeldt, E.
 —, faces of.—Vernadski, V. I., 2.
 —, formation of mixed.—Nacken, R.
 —, goniometric study of.—Fedorov, E. von.
 —, hæmatite.—Munroe, C. E.
 —, isogyres of.—Evans, J. W., 6.
 —, optical axial angle of biaxial.—Souza-Brandão, V., 2.
 Crystals, origin of forms of.—Goldschmidt, V., 3.
 —, skiodroms of.—Evans, J. W., 6.
 —, sulphate of copper.—Bøeris, G.
 —, symmetry of.—Evans, J. W., 7; Hilton, H.
 —, thermodynamic theory of.—Pavlov, P.; Pockels, F.
 —, topical number.—Hezner, L.
 —, twinning of.—Goldschmidt, V.; Johnsen, A., 2 & 3; Kreutz, S.; Neugebauer, F.
Cserhátgebirge (Hungary).—Noszky, E.
Ctenis.—Yokoyama, M.
Cuccoceras.—Diener, C., 2.
 Cuckmere (Sussex).—Elsden, J. V.
Cucullea.—Etheridge, R., *fil.*, 3; Ihering, H. von, 1 & 2; Wilckens, O., 2.
Cucullaria.—Ihering, H. von, 2.
Cucumites.—Perkins, G. H., 5.
 Cucuron (Vaucluse).—Deydier, M.
 Cudgewa Mt. (Victoria).—Gregory, J. W., 4.
 Cuisien, Paris Basin.—Combes, P., *fil.*
 Cullinan diamond.—Hatch, F. H., 4.
 Culm, Devon.—Rogers, I.
 —, Harz.—Bode, A., 2.
Cunearia.—Spitz, A.
 Cuneo (Piedmont).—Sacco, F., 9.
 CUNNINGTON, W., *Obit.*—*See* Geikie, Sir A., 2.
 Cuprite.—Cornu, F., 9.
 CURIE, P., *Obit.*—*See* Anon., 8.
 Catch (India).—Sivewright, E.
Cyathophora.—Koby, F.
Cyathophyllum.—Første, A. F.
Cybium.—Leriche, M.; Priem, F., 2 & 4.
 Cycadofilices, Carboniferous.—Zalesski, M. D.
 Cycads, fossil.—Arber, E. A., 1-3.
Cyclactinia.—Dollfus, G. F.
 Cyclades (Egean Sea).—Ktenas, K. A., 2.
Cyclas.—Courty, G., 3.
Cyclina.—Tokunaga, S.
Cycloclypeus.—Silvestri, A.
Cyclocrinus.—Reed, F. R. C.
Cyclonema.—Perner, J.; Spitz, A.
Cyclostomiceras.—Ruedemann, R., 2.
Cyclotropis.—Perner, J.
 Cygnet, Port (Tasmania).—Twelvetreets, W. H., 4 & 5.
Cylichna.—Tokunaga, S.
Cymbiola.—Ihering, H. von, 2.
Cynodictis.—Merriam, J. C.
 Cynodontia, mammalian skull &. —Broom, R., 2.
Cypræa.—Arnold, R., 3; Cossmann, M., 3; Icke, H.
Cypridea.—Harbort, E.; Oppenheim, P., 2.
Cypricardella.—Clarke, J. M., 3.
Cypricardinia. — Clarke, J. M., 3
 Weller, S.
Cyprina.—Woods, H., 2.
Cyrena.—Ihering, H. von, 2.
Cyrtactinoceras & *Cyrtendoceras*. —Ruedemann, R., 2.

- Cyrtina*.—Clarke, J. M., 3.
Cyrtoceras.—Clarke, J. M., 3; Ruedemann, R., 2; Siemiradzki, J. von.
Cyrtodonta.—Clarke, J. M., 3; Hudson, G. H.
Cyrtodontarca.—Beede, J. W.
Cyrtopleurites.—Diener, C.
Cystelasma.—Cumings, E. R., 2.
Cystidea, Ordovician.—Reed, F. R. C.
Cystiphyllum.—Förster, A. F.
Cystoidea, Silurian.—Hudson, G. H.; Stromer, E., 4.
Cytherea.—Oppenheim, P.; Wilckens, O., 2.
Czekanowskia.—Yokoyama, M.
Czetechowitz (Moravia).—Neumann, J.
Dacca District (Bengal).—Fermor, L. L., 3.
Dämme Vand Region (Norway).—Öyen, P. A.
DAGLISH, J., *Obit.*—See Brown, M. W.
Dahlonaga (Ga.).—Graton, L. C.
Dahomey (W. Africa).—Hubert, H.
Daimonhelix.—Fritsch, A., 3.
Dakar (Senegambia).—Chautard, P.; Guilbert, L.
Dakota (U.S.A.).—Whitfield, R. P., 2; Matthew, W. D., 4; Wilder, F. A., 2.
Dalbergia.—Hollick, A.
Dalecarlia (Sweden).—Törnquist, S. L.
Dallas Co. (Ala.).—Merrill, G. P., 2.
Dalmanella.—Clarke, J. M., 3; Scupin, H.
Dalmanites.—Clarke, J. M., 3; Diener, C., 2.
Dalmatia. — Bukowski, G. von, 1-3; Dainelli, G.; Kerner, F. von, 1 & 2; Mertens, P. J.; Schubert, R. J., 2-6.
Dammara.—Hollick, A.
DANA, J. D., monument.—See Dana, J. D.
Danburite, Piedmont.—Millosevich, F., 5.
Danbury (Essex).—Salter, A. E., 3.
Dandaraga (W. Austral.).—Campbell, W. D., 2.
Dannemora (Sweden).—Holmquist, P. J., 2.
Danube (Austria).—Toula, F.
—, delta of the.—Sévastos, R., 3.
Dartford (Kent).—Chandler, R. H.; Newton, E. T.
Datolite.—Himmelbauer, A.; Whitlock, H. P., 4.
Dauphiné (France).—Boussac, J., 4; Chabrand, E.; Glangeaud, P., 3 & 4; Jacob, C.; Kilian, W., 4; Lory, P.; Pâquier, V., 1 & 2.
Davidite, S. Australia.—Mawson, D., 2.
Dawdon Colliery (Durham).—Wood, E. S.
Dead ground, Hainault.—Simoens, G., 6.
Dean, Forest of (Gloucester).—Cullis, C. G.; Thompson, W.
De Beers Mines, Cape Colony.—Anon., 31; Launay, L. de; Rathbone, E. P.
Deccan Trap, India.—Fermor, L. L.
Decimal classification, geology &.—See BELGIUM, Serv. géol., 3 & 4.
Deep-sea deposits, composition of.—Clarke, F. W.
DEFRANCE collection, Caen.—Bigot, A.
Dehra-Dun (India).—Rudzki, M. P., 2.
Delatite Co. (Vict.).—Howitt, A. M., 1-4.
Delphinula.—Meli, R.
Delphinulidæ, Silurian.—Perner, J.
Delphinus.—Eastman, C. R., 2.
Delta, Colorado R.—Davis, A. J.
—, Danube.—Stévastos, R., 3.
—, Mississippi.—Hilgard, E. W.
Delta Co. (Colo.).—Headden, W. P., 2.
Deltas, origin of.—Grund, A.
Delthyris.—Weller, S.
Deltoceras.—Ruedemann, R., 2.
DEMARCHI, L., *Obit.*—See Baldacci L., 2.
Demonte (Piedmont).—Rosati, A.
Deneholes.—Holmes, T. V., 2.
Denmark.—Gagel, C., 2-4; Grenwall, K. A.; Jessen, A., 1 & 2; Johansen, A. C.; Madsen, V.; Milthers, V.; Nørregaard, E. M.; Nordmann, V., 1 & 2; Ravn, J. P. J., 1-4; Vaupell, C.; Ussing, N. V.; Wesenberg-Lund, C.
Density, earth's crust.—Costanzi, G.
Dentaliidae, Liassic.—Richardson, L., 9.
Dentalium.—Blake, J. F.; Broili, F., 3; Sheppard, T.; Tokunaga, S.; Wilckens, O., 2.
Denudation.—Carter, W. L.; Hæberle, D.; Kassner, C.; see also Erosion.
Denver (Colo.).—Cannon, G. L.
DE RANCE, C. E., *Obit.*—See Geikie, Sir A., 2.
Derbyshire.—Arnold-Bemrose, H. H.; Fox, W. S., 1 & 2; Horwood, A. R.; Jones, T. A., 3; Lapworth, C.; Strangways, C. F., 3; Woodward, H., 3; see also GREAT BRITAIN, Geol. Surv.; & Coalfields, &c.
Dermosmilina.—Koby, F.
Desert, Egyptian Eastern.—Hume, W. F., 2.
— features.—Ferrari, H. T.
Desertcreate Group, Tyrone.—Fearnside, W. G., 3.
Deserts, ancient Quaternary.—Romer, E., 2.
—, origin of.—Grund, A., 2; Lomas, J., 6; Wiszwianski, H.
Desmoceras.—Jacob, C., 2.
Desmograptus.—Hind, W., 2.
Desmostylus.—Merriam, J. C., 4.
Deutschbrod (Bohemia).—Hinterlechner, K., 1-2.
Devonian, Alaska.—Kindle, E. M.
—, America (South).—Reed, F. R. C., 7.
—, Ardennes.—Fourmarier, P., 3.

- Devonian, Austrian Alps.—Scupin, H.
 —, Bohemia.—Seemann, F.
 —, Bolivia.—Court, G., 3.
 —, Burgundy, &c.—Lévy, Alb. M.
 —, Canada.—Clarke, J. M., 6.
 —, Cape Colony.—Hatch, F. H., 1 & 2; Reed, F. R. C., 3 & 7.
 —, Carinthia.—Spitz, A.
 —, Carnic Alps.—Gortani, M., 3.
 —, Cornwall.—Hill, J. B., 1 & 2; Reid, C.
 —, Devon.—Rogers, I.; Whidborne, G. F., 1 & 2.
 —, Germany (North).—Bode, A., 2; Drevermann, F.
 —, Gratz Basin.—Vacek, M.
 —, Hesse.—Fuchs, A.; Holzapfel, E.
 —, Kentucky.—Første, A. F.
 —, Liège.—Goffart, J.
 —, Maine.—Williams, H. S., 2.
 —, Michigan.—Grabau, A. W., 2.
 —, New Brunswick.—Matthew, G. F.
 —, New York.—Clarke, J. M., 3-6; Grabau, A. W., 3; Hartnagel, C. A., 2; Shimer, H. W.; Williams, H. S.; White, D.
 —, Ohio.—Orton, E., *fil.*; Stauffer, C. R.
 —, Rhenish Prussia.—Fuchs, A.; Holzapfel, E.; Leppla, A., 2.
 —, Rocky Mts.—Raymond, P. E.
 —, Somerset.—Whidborne, G. F., 1 & 2.
 —, Thuringia.—Walther, K.
 —, Westphalia.—Denckmann, A., 1-3.
 —, Wisconsin.—Anon., 35.
 —, Yorkshire.—Hughes, T. McK., 2.
 Devonshire.—Arber, E. A. N., 3; Bedford, J. E., 3; Hickling, G.; Martin, E. A.; Jukes-Browne, A. J., 1-3; Rogers, I.; Ussher, W. A. E., 2; Whidborne, G. F., 1 & 2.
 Dew-ponds.—Martin, E. A., 4.
 Diabase, Bavaria.—Rimann, E. 2.
 —, Christiania.—Brögger, W. C., 2.
 —, Harz.—Erdmannsdörffer, O. H., 3.
 —, Hesse.—Reuning, E.
 —, Linlithgow.—Falconer, J. D.
 —, Nassau.—Reuning, E., 2.
 —, Tasmania.—Osann, A.
 —, Virginia.—Watson, T. L., 3.
 Diablo, Cañon (Ariz.).—Merrill, G. P., 6.
 Diadectes.—Case, E. C.
 Diamond-bearing rocks, Africa (South).—Beck, R., 7; *see also* Cape Colony, Transvaal, &c.
 Diamond Head (Oahu).—Hitchcock, C. H., 6.
 Diamond pipes, Cape Colony, &c.—Fraas, E., 4; Launay, L. de.
 Diamonds, America (North).—Kunz, G. F., 1 & 2.
 —, Brazil.—Derby, O. A.
 Diamonds, Cape Colony.—Anon., 31; Macco, A.; Rastall, R. H., 3; Rathbone, E. P.; Schwarz, E. H. L., 9; Voit, F. W., 1-3.
 —, garnets &.—Sutton, J. R.
 —, New South Wales.—David, T. W. E.; *see also* NEW SOUTH WALES, Dep. Mines.
 —, Orange River Colony.—Johnson, J. P., 2.
 —, origin of.—David, T. W. E.; Escard, J.; Voit, F. W., 1-3; Williams, G. F.
 —, Rhodesia.—Mennell, F. P., 2 & 4; *see also* RHODESIA.
 —, Transvaal.—Corstorphine, G. S.; Hatch, F. H., 4.
 Diaspore.—Cesáro, G.
 Diastoma.—Cossmann, M., 2; Oppenheim, P., 2.
 Diastopora.—Canu, F.
 Diatomaceous deposits, Piedmont. — Clerici, E., 3.
 —, Victoria.—Kitson, A. E., 4.
 Diatomite.—*See* Diatomaceous deposits.
 Dibrar System.—Bogdanovich, K. I.
 Dicelloccephalus.—Wiman, C.
 Dicellograptus-shales, Scania.—Moberg, J. C.
 Diceratherium.—Barbour, E. H., 3; Peterson, O. A.
 Dichobune.—Stehlin, H. G.
 Dichocrinus.—Cumings, E. R., 2.
 Diceranophyllum.—Renier, A., 7; Sterzel, J. T.
 Dictyozamites.—Nathorst, A. G., 2.
 Dielasma.—Scupin, H.; Stuckenberg, A. Dienten (Salzburg).—Till, A.
 Dieppe (Normandy).—Morellet, L.
 Dimorpharæa & Dimorphastræa. — Koby, F.
 Dimorphite, Phlegrean Fields.—Krenner, J., 2.
 Dinant (Namur).—Fourmarier, P.
 Dinelops.—Woodward, A. S., 7.
 Dineura.—Cockerell, T. D. A., 4.
 Dinichthys.—Eastman, C. R., 3.
 Dinosauria, Cretaceous.—Cannon, G. L.; Lydekker, R., 2; Osborn, H. F., 2.
 —, gastroliths.—Wieland, G. R.
 —, Jurassic.—Thevenin, A., 5.
 —, Triassic.—Huene, F. von.
 Dinotherium.—Athanasiu, S.
 — sand, Mainz.—Mordziol, C.
 Diodon.—Chapman, F., 9; Leriche, M.
 Dioonites.—Yokoyama, M.
 Dioptase, Donetz Basin.—Samoilov, Y.
 Diorite, Aswan.—Ball, J.
 —, Corsica.—Deprat, J., 1-3, 5.
 —, Harz.—Erdmannsdörffer, O. H.
 —, Hesse.—Klemm, G.
 —, Montenegro.—Ugolini, R.
 —, Nevada.—Spurr, J. E.
 —, New York.—Merrill, F. J. H., 4.
 Dioritic rocks, classification of.—Rosenbusch, H.
 Diploclema.—Bassler, R. S.

- Diplocænia*.—Koby, F.
Diplodon.—Ihering, H. von, 1 & 2.
Diplograptus.—Elles, G. L., 2; Hall, T. S.
Diplotmema.—Zeiller, R.
Diplotrypa.—Bassler, R. S.; Reed, F. R. C.
Diplozone.—Perner, J.
Diprotodon.—Woodward, A. S., 6.
Dipterus.—Eastman, C. R., 3.
Discoides-beds, Vercors.—Pâquier, V.
Distasis.—Handlirsch, A.
Disthene.—See Kyanite.
Distichites & Dittmarites.—Diener, C.
Ditrupe.—Wilckens, O., 2.
Dividing Range, Victoria.—Barnard, F. G. A.
Djambi (Sumatra).—Tobler, A.
Dnieper Valley (Russia).—Kuznetzov, S.
Dobrudsha (Rumania).—Cardas, A., 1 & 2; Macovei, G.; Sévastos, R., 3; Simionescu, I.
Dogger, Villány.—Till, A., 2; see also Jurassic.
Dognacska (Hungary).—Kleinfeldt, E.
Dogachi (Bengal).—Fermor, L. L., 3.
Dolerite, Antrim.—Cole, G. A. J., 3; Thomson, J. A.
 —, Hesse.—Wiegel, H., 2.
 —, New South Wales.—Card, G. W.
 —, New Zealand.—Thomson, J. A.
 —, origin of.—Pfaff, F. W.
 —, orthoclase in Campolongo. — Linck, G.
 —, Tyrol.—Gordon, (Mrs.) M. M. O.
Dollosaurus.—Yakovlev, N.
Dolodrook (Victoria).—Chapman, F., 3.
Dome-structure, Californian conglomerate.—Arnold, R., 2.
Domes, Lorraine coalfield.—Bergeron, J., 2.
Domingite.—Spencer, L. J.
Domodossola (Piedmont).—Stella, A.
Domopora.—Nelli, B., 2.
Don R., Little (Yorks).—Watts, W.
Don Valley (Russia).—Bogachev, V., 2.
Donaldson Cave (Ind.).—Hahn, W. L.
Doncaster (Yorks).—Culpin, H.
Donegal (Ireland).—Cole, G. A. J.
Donetz Basin (Russia).—Samoilov, Y.
Dopple, Mt. (Queensl.).—Dunstan, B.
Dopplerite.—Potonié, H., 2.
Dordogne (France).—Harlé, E.
Doria Ripaira Valley (Piedmont). — Martin, D., 2 & 3.
Dorcidaris.—Lambert, J.
Dorpat (Russia).—Muehlen, M. von zur; Orlov, A., 2.
Dorset.—Baldwin-Wiseman, W. R.; Buckman, S. S., 3; Lang, W. D., 3.
Dorton (Bucks).—Davies, A. M., 4.
Dorygnathus.—Plieninger, F.
Dosinia.—Ihering, H. von, 2.
Doter.—Sellards, E. H.
Dothan Formation, Oregon.—Diller, J. S.
Doubs (France).—Girardin, P.
Doughtyite.—Kœchlin, R.
Douling (Somerset).—Buckman, S. S., 3; Richardson, L., 1, 4, & 14.
Douvilleiceris.—Douvillé, H., 11; Etheridge, R., *fil.*, 3; Jacob, C., 2; Sinzov, J., 2.
Dove Valley (Staffs).—Wynne, T. T.
Doveholes (Derby).—Fox, W. S., 2.
Dover, Straits of.—Leprince Ringuet, F.
Down, Co. (Ireland).—Bedford, J. E., 2.
Downs, Surrey & Sussex.—Martin, E. A., 1 & 2.
Drainage, Santa Clara Valley.—Branner, J. C.
 —, Wisconsin.—Harder, E. C.
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 Glatz (Silesia).—Tannhäuser, F.
 Glauberite, Vesuvius.—Lacroix, A., 5.
 Glauconitic beds, Tremiti Is.—Bassani, F., 2.
 Glauconophane-rocks, California.—Smith, J. P.
 Glencoe (Argyle).—See GREAT BRITAIN, Geol. Surv.
 Gleneyrie Formation, Colorado.—Finlay, G. I., 2.
 Glen Grey (Cape Colony).—Du Toit, A. L.
 Glen-Park Limestone, Missouri.—Weller, S.
Glossina.—Clarke, J. M., 3.
Glossozamites.—Yokoyama, M.
 Gloucestershire.—Cullis, C. G.; Richardson, L., 3, 6, 7, 8, 10, 12, & 13.
 Glucinium.—Nicolardot, P., 3.
Glycimeris.—Etheridge, R., *fil.*, 3; Ihering, H. von, 2.
Glyphæa.—Schuetze, E.
Glyphioceras.—Bolton, H.
Glyptaspis.—Eastman, C. R., 3.
Glyptograptus.—Elles, G. L., 2.
Glyptosaurus.—Loomis, F. B., 2.
 Gneiss, Aar Massif.—Hugg, F.
 — —, Alpes Maritimes.—Sacco, F., 6.
 — —, Alsace.—Rhein, A.
 — —, Amur district.—Ahnert, E. E., 1-3.
 — —, Antarctic.—See BRITISH MUSEUM, 2.
 — —, augite &.—Backlund, H.
 — —, Baden.—Philipp, H.; Rosenbusch, H., 2.
 — —, Cyclades.—Ktenas, K. A., 2.
 — —, Donegal.—Cole, G. A. J.
 — —, Finland.—Sederholm, J. J.
 — —, Erzgebirge.—Dalmer, K., 2; Gæbert, C.
 — —, Gothland.—Holmquist, P. J., 3.
 — —, Limpopo R.—Voit, E. W., 4.
 — —, New York.—Berkey, C. P., 2.
 — —, Norway.—Kolderup, C. F., 4; Reusch, H., 3.
 — —, Piedmont.—Sacco, F., 8.
 — —, Portugal.—Osann, A.

- Gneiss, Scottish N.W. Highlands.—Flett, J. S.; Peach, B. N.
 —, Siberia.—Backlund, H., 3.
 —, Ticino.—Heim, A., 3; Klemm, G., 2.
 —, Tyrol.—Trener, G. B.
 Gold, Alaska.—Brooks, A. H., 2 & 3; Dall, W. H.; Moffit, F. H.; Spencer, A. C.; Prindle, L. M., 2.
 —, Australia (Central).—Davidson, A. A.
 —, Brazil.—Oliveira, S. de.
 —, Brittany.—Stutzer, O., 3.
 —, British Columbia.—Brock, R. W.; Carmichael, A.; *see also* BRITISH COLUMBIA.
 —, Burma.—Maclaren, J. M., 4.
 —, California.—Day, D. T.; Diller, J. S., 2; Doolittle, J. E.; Edman, J. A.; Emmons, S. F., 3.
 —, Canada.—Brock, R. W., 2; Lamb, H. M.; Low, A. P., 2; *see also* KLONDYKE.
 —, Carolina (N. & S.) & Georgia.—Graton, L. C.
 —, Colorado.—Emmons, S. F., 3-5; Lindgren, W., 2; Scholl, G. P.
 —, Dean, Forest of.—Cullis, C. G.
 —, deposition of.—Stokes, H. N.
 —, Donetz Basin.—Samoilov, Y.
 —, Finland.—Anon., 46; Fircks, C.
 —, German E. Africa.—Tornau, —.
 —, German Rhineland.—Freise, F.
 —, Hungary.—Horváth, L.; Pálffy, M. von, 2, 3, & 5.
 —, Idaho.—Emmons, S. F., 3.
 —, India.—Maclaren, J. M., 6; *see also* INDIA, Dep. Mines; MYSORE, &c.
 —, Klondyke.—Tyrrell, J. B., 3.
 —, Madagascar.—Colcanap, J.
 —, Malay States.—*See* MALAY STATES, Geol. Rep.
 —, mining.—Gregory, J. W., 3 & 7.
 —, Montana, Washington, & Wyoming.—Emmons, S. F., 4.
 —, Mysore.—Smeeth, W. F.; *see also* MYSORE, Geol. Dep.
 —, Nevada.—Emmons, S. F., 3; Hastings, J. B.; Ransome, F. L., 2; Spurr, J. E.
 —, New Guinea.—Liversidge, A.
 —, New South Wales.—Woodman, J. E.; *see also* NEW SOUTH WALES, Dep. Mines.
 —, New Zealand.—Longridge, C. C.; *see also* NEW ZEALAND, Dep. Mines.
 —, Nova Scotia.—*See* NOVA SCOTIA, Dep. Mines.
 —, nuggets, concentric structure in.—Liversidge, A.
 —, occurrence of.—Amador, M. G.; Rickard, T. A.; Stelzner, A. W.
 —, Orange River Colony.—Sawyer, A. R.
 —, Orenburg.—Hatch, F. H., 3.
 Gold, Peru.—Klinge, G.
 —, Piedmont.—Colomba, L., 2; Millosevich, F., 4.
 —, Queensland.—Cameron, W. E.; Dunstan, B., 4.
 —, Rhodesia.—Beck, R., 4; Mennell, F. P., 2; *see also* RHODESIA.
 —, Servia.—Ivanovitch, D.; Maclaren, J. M., 5.
 —, Siberia.—Ahnert, E. E., 1-3; Gerasimov, A. P.; Ivanov, M. M.; Khlaponin, A., 1 & 2; Preobrazhenski, P. I.; Purington, C. W.; Rippas, P. B.; Shockley, W. H.; Simon, A. L.; Yavorovski, P.
 —, Silesia.—Wieneck, A.
 —, Switzerland.—Schmidt, C., 5.
 —, Tasmania.—*See* TASMANIA, Dep. Mines; *also* Twelvetrees, W. H., 2, 4, & 6.
 —, Tibet.—Maclaren, J. M., 3.
 —, Transvaal.—Johnson, J. P.; Penrose, R. A. F., *fil.*; Maclaren, J. M., 6; Young, R. B.; *see also* TRANSVAAL, Mines Dep.
 —, Utah.—Dern, J.; Emmons, S. F., 3; Shockley, W. H.
 —, Victoria.—Baragwanath, W.; Baragwanath, W., *fil.*; Dunn, E. J., 1-38; Gregory, J. W., 3, 7, & 8; Howitt, A. M., 3; Kitson, A. E.; Mahony, D. J.; Reid, D.; Whitelaw, O. A. L.
 —, washing for.—Fournier, A.
 —, Western Asiatic ancient workings.—Freise, F., 2.
 —, Western Australia.—Gibson, C. G.; Lindgren, W.; Maclaren, J. M., 6; *see also* WESTERN AUSTRALIA, Dep. Mines.
 —, Zululand.—*See* NATAL, Rep. Mining.
 Goldfield District (Nevada).—Hastings, J. B.
 GOLDSCHMIDT law of complication.—Hobbs, W. H., 12.
 Gömör Co. (Hungary).—Zimányi, K.
 Gomphoceras.—Anon., 35.
 Gonatocheilus.—Till, A., 5.
 Gonatodus.—Traquair, R. H.
 Gonioceras.—Ruedemann, R., 2.
 Gonionotites.—Diener, C.
 Goniopholis.—Hooley, R. W.; Mawson, J.
 Goniophora.—Clarke, J. M., 3; Drevermann, F.; Reed, F. R. C.
 Goniostrophia.—Perner, J.
 GOODCHILD, J. G., *Obit.*—*See* Anon., 9.
 Gorceixite.—Kœchlin, R.
 Gore (Otago, N.Z.).—Kidston, R., 3.
 Goring Gap (Oxford).—Harmer, F. W., 3.
 Görlitz (Silesia).—Priemel, K.
 Gosau deposits, Austria.—Felix, J., 2;
 Geyer, G.; Lambert, J., 2.
 Gosseletina.—Etheridge, R., *fil.*
 Gotha (Germany).—Amthor, R., 1 & 2.

- Gothland (Sweden).—Hasselmann, H.; Holmquist, P. G., 3; Moberg, J. C., 1-4; Post, L. von; Törnquist, S. L.; *see also* SWEDEN, Geol. Undersökn.
- Gower (Glamorgan).—Strahan, A., 3.
- Grabser-Klippe (Switzerland).—Heim, A., 5.
- Graham I. (Queen Charlotte Is.).—*See* BRITISH COLUMBIA.
- Graham Land (Antarctic).—Gourdon, E.
- Grammysia*.—Clarke, J. M., 3; Siemiradzki, J. von.
- Grampound Series, Cornwall.—Hill, J. B., 2.
- Granada (Spain).—Hobbs, W. H., 2.
- Grand Cañon (Arizona).—Davis, W. M., 5; (Colo.).—Whittemell, C. T., 6.
- Grand Isle Co. (Vt.).—Perkins, G. H., 3.
- Grand-Manil (Belgian Luxemburg).—Simoons, G., 8.
- Grand-Mont landslip (Yonne).—Peron, A., 2.
- Grande, Rio (N. Mex.).—Gordon, C. H.; Keyes, C. R., 5; Lee, W. T., 3 & 4; *see also* Rio Grande Valley.
- Granite, Aberdeenshire.—Simpson, W., 2.
- , Antarctic.—Gourdon, E.; *see also* BRITISH MUSEUM, 2.
- , Aswan.—Ball, J.
- , Baden.—Eisele, H.; Philipp, H.
- , Bavaria.—Schuster, M. E.
- , Cornwall.—Hill, J. B., 1 & 2.
- , De Beers diamond pipe with.—Launay, L. de.
- , Donegal.—Cole, G. A. J.
- , Fiji Is.—Woolnough, W. G.
- , Finland.—Borgström, L. H.; Sederholm, J. J.
- , French Guinea.—Chautard, J.
- , Hartz.—Erdmannsdörffer, O. H., 1 & 2.
- , Hesse.—Chelius, C.
- , iron-ore segregation in.—Vogt, J. H. L.
- , Maine.—Dale, T. N., 3.
- , Malay States. — *See* MALAY STATES, Geol. Rep.
- , New England.—Emmons, S. F., 4.
- , New South Wales.—Andrews, E. C., 2.
- , Norway. — Brøgger, W. C.; Kolderup, C. F., 4; Reusch, H., 3.
- , Parma.—Viola, C., 2.
- , Perthshire.—Bates, G. F.
- , Pyrenees.—Termier, P., 4.
- , Rhode I.—Emerson, B. K.
- , Rhodesia.—Mennell, F. P.
- , Saxony.—Baumgärtel, B.; Dalmer, K., 2.
- , Silesia.—Rimann, E.
- , Swiss Alps.—Kilian, W., 1 & 2; Sandberg, C. G. S.
- , Transvaal.—Kynaston, H., 2 & 3.
- Granite, Tyrol.—Sander, B.
- , Vermont.—Perkins, G. H., 2.
- , Virginia.—Watson, T. L.
- Granite-pegmatite minerals, Norway.—Brøgger, W. C., 3.
- Granitic rocks, classification of.—Rosenbusch, H.
- Granulite, Corsica.—Deprat, J., 1-3, 5.
- , French Guinea.—Chautard, J.
- , Saxony.—Credner, H.
- Graphite, Brazil.—Oliveira, S. de.
- , Lapland.—Stutzer, O.
- , New York.—Newland, D. H.
- , occurrence of.—Evans, J. W., 1 & 2.
- , Queensland.—Dunstan, B.
- , Tschuktschen Peninsula.—Korsuchin, J.
- , Wyoming.—Emmons, S. F., 4.
- Graphitic iron, meteorite with.—Tassin, W.
- quartzite, Brittany.—Pussenot, —.
- Graptolites, Carboniferous.—Hind, W., 2.
- , Devonian.—Clarke, J. M., 3.
- Graptolites*.—Elles, G. L., 2; Hall, T. S.; Guerich, G., 3; Malaise, C.; Moberg, J. C.; Reed, F. R. C.; Siemiradzki, J. von; Törnquist, S. L.
- Gratz (Styria).—Heritsch, F., 2; Hørnes, R., 2; Vacek, M.
- Gravels, Alaska.—Dall, W. H.
- , Berne.—Baltzer, A.
- , British Columbia.—Lambe, L. M., 2.
- , Clevedon.—Davies, H. N.
- , Holderness.—Sheppard, T., 2.
- , Iowa.—Calvin, S.
- , Kändern.—Böhm, G.
- , Prussia. — Linstow, O. von; Wuest, F., 4.
- , Rhine Valley.—Steuer, A.
- , Schaffhausen.—Meister, J.
- , Żurawica.—Łoziński, W. von, 3.
- Gravitation, earth &.—Biddlecombe, A., 1 & 2; Rudzki, M. P., 2; Schweydar, W.
- Gravitelli (Sicily).—Seguenza, L.
- Great Britain, STANFORD'S Geological Atlas.—Woodward, H. B., 3.
- *See also* GREAT BRITAIN, Geol. Surv. & Home Office.
- GREBE, H., *Obit.*—*See* Leppla, A., 4.
- Greece.—Cayeux, L., 6; Frech, F., 4; Ktenas, K. A., 1 & 2; Lacroix, A., 7; Négris, P.; Renz, C., 1-3.
- Green Co. (Pa.).—Stone, R. W.
- Green Mt. Range (Vt.).—Hitchcock, C. H.
- Green-River Beds, Wyoming.—Cockerell, T. D. A.
- Greenland.—Bøggild, O. B.; Nathorst, A. G., 2; Pavlov, A. P.; Petersen, J., 2; Schwantke, A.; Steenstrup, K. J. V.; Ternier, P., 2.
- Greenough River (W. Austral.).—Campbell, W. D.

- Greenstones, Cornwall.—Hill, J. B., 1 & 2.
 Greenwich (Kent).—Holmes, T. V., 3.
 GREGG, R. P., *Obit.*—See Geikie, Sir A., 2; Smith, G. F. H., 2.
 Grenville (Ont.).—Brock, R. W., 2.
 Griazi-Tzarytzy Ry. (Russia).—Pavlov, A. V.
 GRIESBACH, K. L., *Obit.*—See Anon., 10; also Tietze, E. E. A., 2.
 Griffen (Carinthia).—Dreger, J.
Griffithides.—Woodward, H., 6.
 Grimaldi Cave (Mentone).—Rutot, A., 3; Van Ertborn, O., 10.
 Griqualand West (Cape Colony).—Du Toit, A. L., 3; Rogers, A. W., 5.
 Grisons (Switzerland).—Wilckens, O., 3.
 Grod (Galicia).—Ascher, E.
 Grosni (Caucasus).—Maximov, W.
 Grotte di Castro (Latium).—Moderni, P.; Orzi, D.
 Ground-ice.—Barnes, H. T.
 —tilting during a storm, Japan.—Omori, F., 17.
 Grugny, Mt. (Valais).—Schardt, H., 5.
Gryphæa.—Ihering, H. von, 2.
Gryphodon.—Roth, S., 3.
Grypothierium.—Studer, T.
 —cave, Patagonia.—Lehmann-Nitsche, R., 1 & 2; Roth, S.
 Guadix Formation, Spain.—Hobbs, W. H., 2.
 Guardo (Palencia).—Sánchez Lozano, R., 3.
 Guatemala (C. Am.).—Omori, F., 5.
Guatteria.—Hollick, A.
 Guelma (Algeria).—Sauvage, H. E.
 Guernsey (Channel Is.).—Parkinson, J., 4.
 Guerrero (Mexico).—Villarello, J. D.
 Guildford (Surrey).—Young, G. W.
 Guyenne (France).—Repelin, J., 2.
 Gwegyo (Upper Burma).—Pascoc, E. H., 3.
 Gwennap (Cornwall).—MacAlister, D. A.
 Gyergyóhély (Transylvania).—Pálffy, M. von.
Gyminda.—Hollick, A.
 Gymnite, origin of.—Fogy, D.
Gymnites.—Diener, C., 2; Reis, O. M.
 Gymnosperms, origin of fossil.—Arber, E. A., 1-3; Berry, E. W., 2; Zeiller, R., 5.
 Gypsum, Algeria.—Daresté de la Chavanne; Savornin, J., 3.
 —, crystals.—Woodward, C. J.
 —, Donetz Basin.—Samoilov, Y.
 —, Montana.—Rowe, J. P.
 —, New Brunswick.—Bailey, L. W.
 —, New South Wales.—Card, G. W.
 —, New York.—Parsons, A. L., 2.
 —, Prussia.—Zimmermann, E.
 —, Staffordshire.—Wynne, T. T.
 —, United States.—Emmons, S. F., 4.
Gyroceras, Devonian.—Anon., 35.
Gyrodus.—Heineke, E.
Gyroporella.—Gortani, M., 2.
 Hadersleben (Schleswig - Holstein).—Wegemann, G.
 Hadhramaut (Arabia).—Hooper, D.
Hadriania.—Ihering, H. von, 2.
Hadrocheilus.—Till, A., 5.
 Hæmatite, crystals.—Millosevich, F., 4; Munroe, C. E.
 —, Dognascka.—Kleinfeldt, E.
 —, magnetic properties of.—Kunz, J.
 —, mineralogy of.—Baumhauer, H.
 —, Sardinia.—Millosevich, F., 3.
 Hænertsburg (Transvaal).—Mellor, E. T., 2.
 Hahns Peak (Colo.).—Emmons, S. F., 3.
 Hainault (Belgium).—Brien, V.; Cambier, R.; Cornet, J., 1, 3-6, & 8; Fourmarier, P.; Renier, A., 7; Simoens, G., 6; Van Ertborn, O., 2.
 Halberstadt (Germany).—Wuest, E., 4.
Halilucites.—Diener, C., 2.
 Halifax Hard Bed.—Cash, W.
 Halkyn Mountain (Flints).—Greenwood, H. W., 2.
 Halle a. Saale (Germany).—Wuest, E., 9.
 Hallstadt (Austria).—Gerhart, Hilda.
Halobia.—Bœhm, G., 3.
 Hålol Division (Bombay Pres.).—Fermor, L. L.
 Halouze (Orne).—Heurteau, C. E.
 Hamilton formation, Ohio.—Stauffer, C. R.
Hamites.—Gussmann, —; Paulcke, W.
 Hamlinite, Binn Valley.—Bowman, H. L.
 Hammondsport (N.Y.).—Luther, D. D., 2.
 Hampshire.—Baldwin-Wiseman, W. R.; Boussac, J., 8; Forsyth, D., 7.
 Han-sur-Lesse (Namur).—Fourmarier, P.
 Hangö (Finland).—Suomalainen, E. W.
 Hanover (Germany).—Broili, F., 2; Collet, L. W.; Grupe, O.; Harbort, E.; Henzel, H., 2; Schucht, F., 1 & 2; Stolley, E.
 Hardanger District (Norway).—Öyen, P. A., 1 & 2.
 Harden Moor (Yorks).—Gregory, E. E.
 Harectas, Plain of (Algeria).—Blayac, J.
 Hargita, Mt. (Transylvania).—Pálffy, M. von.
 Harşova (Rumania).—Simionescu, I.
 Hartite.—Kœchlin, R.
 Hartz (N. Germany).—Beushausen, L.; Bode, A., 2; Bœhm, J.; Erdmannsdörffer, O. H., 1-3; Hoppe, O.; Wuest, E., 1 & 4.
 Hastings (Ont.).—Brock, R. W., 2.
 —(Sussex).—Abbott, W. J. L.
 Hauenstein Tunnel (Swiss Jura).—Mandy, J. T.
 Haurets Cavern (Gironde).—Labrie, J.

- Haute Garonne (France).—Carez, L., 2.
 Haverfordwest (Pembroke).—Cantrill, T. C.; Reed, F. R. C., 6 & 9.
 Havre (Normandy).—Babeau, L., 1 & 2.
 Hawaiian Is. (Pacific).—Anon., 37;
 Hitchcock, C. H., 4 & 6; Pickering, W. H.
 Hay (Cape Colony).—Rogers, A. W., 6.
 Haya, Mt. (Pays Basque).—Termier, P., 4.
Haydenites.—Diener, C., 2.
 * Head, Cornwall.—Whitley, D. G.
 Heat-absorption of rocks.—Königsberger, J., 2 & 3.
 Hebrides (Scotland).—Faujas de Saint Fond, B.
 HECTOR, Sir J., *Obit.*—See Anon., 11; Gregory, J. W., 9.
Hedera.—Hollick, A.
Hederella.—Clarke, J. M., 3.
 Hedley (Vict.).—Kitson, A. E., 5.
Hegetotherium.—Roth, S.
 HEILPRIN, A., *Obit.*—See Anon., 12.
 Heimgarten, Mt. (Bavaria).—Knauer, J.
Helcioniscus.—Ihering, H. von.
 Helderberg Plateau (N.Y.).—Prosser, C. S.
Heleosaurus.—Broom, R., 6.
 Helfta (Prussia).—Hornung, F.
Helicophodon.—Roth, S., 3.
Helictites.—Diener, C.
Helicocrinus.—Reed, F. R. C.
Helicolites.—Förste, A. F.
 Helium, natural gas with.—Cady, H. P.
 —, radio-activity &.—Strutt, R. J., 1 & 3.
 —, thorium &.—Strutt, R. J., 3.
Helix.—Coziot, E.; Maury, E.; Stearns, R. E. C.; Troll, O. von; Wuest, E., 3 & 7.
Helminthochiton.—Reed, F. R. C., 4.
 Helsingborg (Gothland).—Moberg, J. C., 4.
Hemiaster.—Steinmann, G., 9.
Hemichroa.—Cockerell, T. D. A., 4.
Hemiheliopsis.—Lambert, J.
Heminaias.—Waagen, L., 4.
Hemipristis.—Jordan, D. S.; Priem, F., 4.
Hemiptychina.—Stuckenberg, A.
Hemitrypa.—Cumings, E. R., 2.
 Hendersonville (N. Car.).—Merrill, G. P., 5.
Heptanchias.—Jordan, D. S.
 Hérault (France).—Depéret, C., 3; Stefano, G. de, 2; Vasseur, G.
 Herbert (Cape Colony).—Rogers, A. W., 6.
 Herborn (Hesse).—Reuning, E., 1 & 2.
Hercocrinus.—Hudson, G. H., 2.
Hercynella.—Spitz, A.
 Hercynian fold.—Reusch, H.; Simoens, G., 5.
 Herefordshire.—Davies, J.; Richardson, L., 11.
 Herkimer Co. (N.Y.).—Cushing, H. P., 1 & 2.
 Hermoso, Mt. (Buenos Aires).—Ameghino, F., 6.
 Hertfordshire.—Evans, Sir J.; Hopkinson, J., 1 & 2; Kidner, H.; Sutton, A.
 Herve, Pays de (Liège).—Forir, H.
 Herzogstand, Mt. (Bavaria).—Knauer, J.
 Heslach (Württemberg).—Fraas, E., 2.
 Hesse (Germany).—Bodifée, —; Chelius, C.; Drevermann, F.; Fuchs, A.; Holzappel, E.; Hornstein, F. F., 1 & 2; Klemm, G.; Lepsius, R.; Mordziol, C.; Reuning, E., 2; Schottler, W., 1 & 2; Steuer, A., 1-3; Stoltz, K.; Wiegel, H., 2.
 Heterastridæ, Triassic.—Oppenheim, P., 5.
Heterastræa.—Oppenheim, P., 2 & 5.
Heterocella & *Heteropora*.—Canu, F.
Heterolophodon.—Roth, S., 3.
Heterostegina.—Boussac, J., 2; Silvestri, A.
Heterotrypa.—Nickles, J. M.
 Hexham (Victoria).—Kitson, A. E., 2.
Hicoria & *Hicoroides*.—Perkins, G. H., 5.
Hierifalchia.—Fucini, A., 2.
 Highlands, N. W. (Scotland).—Flett, J. S.; Peach, B. N.
 Hildesheim (Hanover).—Henzel, H., 2.
 Hillsborough (Vict.).—Dunn, E. J., 3.
 Himalayas (Asia).—Cotter, G. de P.; Diener, C., 1-3; Holland, T. H.; Oldham, R. D., 2; Walker, H.; see also Kashmir, &c.
 Hinglé (Britanny).—Bézier, T.
Hinnites.—Ugolini, R., 3.
Hipparion-beds, Cantal.—Mayet, L.
Hipparionyx.—Clarke, J. M., 3.
Hippidium.—Roth, S., 2.
Hippopotamus.—Scott, W. B.; Seguenza, L.; Stromer, E., 2 & 3.
Hippothoa.—Canu, F.
Hippurites.—Felix, J., 2.
 —-beds, Gosau.—Lambert, J., 2.
 —, Athens.—Ktenas, K. A.
 Hirschberg (Brandenburg).—Werth, E.
 Hizen Prov. (Japan).—Omori, F., 14.
 Hlabisa (Zululand).—See NATAL, 2.
 Hochalm Massif (Tyrol).—Becke, F., 8.
 Hoddle's Creek (Vict.).—Whitelaw, O. A. L.
 Hoe Grange (Derby).—Fox, W. S., 2.
 Hofgastein (Salzburg).—Till, A.
 Hog-wallows.—See Mounds, natural.
Holcodiscus.—Paulcke, W.
 Holderness (Yorks).—Sheppard, T., 2.
Holoparia.—Wilckens, O., 2.
Holopea.—Clarke, J. M., 3; Hudson, G. H.
Holopella.—Spitz, A.
Holosaurus.—Capps, S. R., *fil.*
 Holywell (Flintshire).—Greenwood, H. W., 2.
Homotrypella.—Nickles, J. M.
 Honestones, New York.—Magnus, H. C.

- Hoplites*.—Baumberger, E.; Danford, C. G.; Paulcke, W.
Hornblende, chemistry of.—Penfield, S. L.
—, Montreal essexite.—Tertsch, H.
Hornblende-gneiss, Alsace.—Rhein, A.
Horologium.—Perner, J.
Horse, evolution of the.—Lull, R. S.
—, Tertiary.—Gidley, J. W.; Matthew, W. D., 4.
Horsforth Valley (Yorks).—Holgate, B.
Hospital Hill (Transvaal).—Young, R. B., 2.
Hostensborg (Greenland).—Steenstrup, K. J. V.
Hoyoux Valley (Liège).—Goffart, J.
Hsenwi (Shan States).—La Touche, T. H. D., 2.
Huailay (Peru).—Velarde, C. E.
Huamachuco (Peru).—Santolalla, F. M., 2.
Hübnerite, analysis of.—Nicolardot, P.
Hudson Bay (Canada).—Low, A. P.
Hudson Schist, New York.—Merrill, F. J. H., 4.
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 Kreuzeck (Bavaria).—Schulze, G.
 Kreuznach (Rh.-Pruss.).—Delkeskamp,
 R.
 Kruhel Wielki (Galicia).—Wójcik, W.
 Kuilu-Niari R. (Congo District).—
 Levat, D.
 Kujau (Silesia).—Quaas, A.
 Kukuruku Hills (Nigeria).—Parkinson,
 J., 2.
 Kumaon (Himalayas).—Cotter, G. de P.
 Kurdistan (W. Asia).—Freise, F., 2.
 Kuttenberg (Bohemia).—Sokol, R.
 Kuznetsk (Tomsk Gov.).—Polyenov, B.
 K.
 Kyanite.—Fedorov, E. S., 3.
 Laaser Mt. (Tyrol).—Hammer, W.
 Laborel meteorite.—Berwerth, F., 3.
 Labradorite-rocks, Norway.—Kolderup,
 C. F., 1-3.
Labrodon.—Chapman, F.
 Labyrinthodontia, Permian.—Seeley, H.
 G., 2.
 Laccolite, Sudbury.—Coleman, A. P., 2.
 Lacertilian shoulder-girdle.—Broom,
 R., 3.
 Lada (Kashmir).—Bruce, C. D.
 Ladaux (Gironde).—Labrie, J.
 Ladoga, Lake (Russia).—Ramsay, W.
 Lagoa (Brazil).—Winge, H.
 Lagoi (Taliabu I.).—Böhm, G., 5.
 Lagonegro (Basilicata).—Lorenzo, G.
 de, 3; Zambonini, F., 2.
 Lagoons, origin of.—Ruehl, A.
 Lahaul (India).—Walker, H.
 Laidon Hills (Essex).—Salter, A. E.
 Lake Basins, glacial erosion &—Old-
 ham, R. D., 8.
 ——— deposits, Mexico.—Cayeux, L.
 ——— District, English.—Marr, J. E., 1
 & 2; Tate, T.
 ———-like areas of depression.—Harmer,
 F. W.
 Lakes, Dorpat.—Muehlen, M. von zur.
 ———, Finland.—Tanner, V., 2.
 ———, Galicia.—Romer, E.
 ———, Novgorod.—Yermolov, A. S.
 ———, origin of.—Groom, T. T.

- Lakes, Silesian glacial.—Leppla, A.
 —. See also Lochs, &c.
 LAMARCK types.—Bigot, A.
 Lambay Island (Co. Dublin).—Hinch, J. de W.; Seymour, H. J.
 Lambayeque Valley (Peru).—Hurd, H. C.
Lambdaconus.—Roth, S., 3.
Lambdotherium.—Loomis, F. B., 2.
 Lamellibranchiata, Carboniferous. —
 Boulton, H.; Cumings, E. R., 2;
 Etheridge, R., *fil.*, 1 & 2; Moberg, J. C., 4; Stuckenberg, A.; Weller, S.
 —, Cretaceous.—Ascher, E.; Bøhm, J.; Etheridge, R., *fil.*, 3; Ihering, H. von, 1 & 2; Oppenheim, P.; Pavlov, A. P., 2; Pellat, E.; Smoleński, G.; Steinmann, G., 8 & 9; Toucas, A., 1 & 2; Wilckens, O., 2; Wisniowski, T.; Wollemann, A.; Woods, H., 1 & 2.
 —, Devonian. — Clarke, J. M., 3; Drevermann, F.; Scupin, H.; Walther, K.
 —, Jurassic.—Allen, H. A.; Bøhm, G., 5; Borisyak, A.; Cardas, A., 2; Cossmann, M., 4; Fucini, A., 2; Pavlov, A. P.; Steinmann, G., 8; Thiéry, P.; Vinassa de Regny, P., 2; Whitfield, R. P., 2.
 —, Permian.—Beede, J. W.
 —, Permo-Carboniferous. — Gortani, M., 2.
 —, Quaternary.—Nordmann, V.
 —, Silurian.—Dun, W. S.; Hudson, G. H.; Reed, T. R. C.; Shimer, H. W.; Siemiradzki, J. von.
 —, Tertiary.—Arnold, R., 3; Bogachev, V.; Cockerell, T. D. A., 3; Cossmann, M., 2 & 3; Dainelli, G.; Dall, W. H.; Deydier, M.; Dollfus, G. F., 7; Icke, H.; Ihering, H. von, 1 & 2; Meli, R.; Nelli, B., 2; Oppenheim, P., 2; Ravn, J. P. J., 4; Sacco, F.; Shattuck, G. B.; Tokunaga, S.; Ugolini, R., 2-4; Vadász, E.
 —, Triassic.—Bøhm, G., 3; Broili, F., 3; Diener, C., 2; Grupe, O.; Schmidt, M., 3; Waagen, L., 2 & 4; Zeller, F.
Lamna.—Priem, F., 4; Woodward, A. S., 5.
 Lamaille Co. (Vt.).—Marsters, W. F.
 La Motte I. (Vt.).—Seely, H. M., 2.
 Lanarkshire (Scotland).—See GREAT BRITAIN, Geol. Surv., 2.
 Lancashire.—Beasley, H. C.; Brown, W. D.; Dawkins, W. B., 2; Garwood, E. J.; Pritchard, S. H., 2; Thompson, F. J.; Travis, C. B., 2 & 4; Walker, W. T.; Watson, D. M. S.; Woodward, H., 5.
 Lancefield (Victoria).—Barnard, F. G. A.
 Land-areas, Tertiary.—Matthew, W. D., 2.
 —, Baltic reclaimed.—Wegemann, G.
 Land changes, faunas &.—Lobley, J. L.
 —, changes of level.—Bassano, F., 3; Berthon, P.; Capeder, G., 3; Claxton, T. F.; Cayeux, L., 6; McIntosh, K.; Négri, P.; Pearson, H. W.; Poole, H. S., 2, 4, & 5; Steenstrup, K. J. V.; Tanner, V.; Tarr, R. S., 2; Welch, R.
 —, distribution of seas &.—Arlt, T., 2.
 —, ice thickness, Glacial Period.—Fisher, O.
 —, sea &.—Waagen, L., 3.
 —, submergence, Glacial Period.—Kendall, P. F.
 —, subsidences, Westphalia. — Bærtling, R.
 Land's End (Cornwall).—Reid, C., 2.
 Landes (France).—Douville, H., 8.
 Landslip, Chitry.—Peron, A., 2.
 —, Claxheugh.—Woolacott, D.
 —, Grugnay Mt.—Schardt, H., 5.
 —, Kandersteg.—Turnau, V.
 —, Mustajbašić.—Katzer, F.
 Landslips.—Ržehak, A., 1 & 2.
 Lane End (Bucks).—Reader, T. W., 2.
 Langeland (Denmark).—Grønwall, K. A.
 Langkofl (Tyrol).—Gordon, M. M. O.
 Langley-Green boring (Warwickshire). — Gibson, W., 2.
 Langsett (Yorks).—Watts, W.
 Languedoc (France).—Bergeron, J.
 LANINO, G., *Obit.*—See Sacco, F., 11.
 Lansfordite.—Fedorov, E. S., 3.
 Lapland.—Fireks, C.; Stutzer, O., 1 & 2; Tanner, V., 2.
 Laramie district, Wyoming.—Darton, N. H., 2.
 —, definition of the term.—Veatch, A. C., 4.
 Lardalite, Christiania.—Brøgger, W. C., 2.
 Larder Lake (Ont.).—Brock, R. W., 2.
 Larvikite, Christiania.—Brøgger, W. C., 2.
 Lascemborn (Lorraine).—Törnquist, A.
Lasea.—Tokunaga, S.
 Lassallite.—Friedel, G.
 Last Hope Inlet (Patagonia). — Lehmann-Nitsche, R., 1 & 2; Roth, S., 2; Studer, T.; Wilckens, O.
 Laterite, Senegambia.—Guilbert, L.
 —, Western Australia.—Simpson, E. S., 2.
Latimæandra.—Koby, F.
 Laurentian, North America.—Adams, F. D.; Matthew, G. F., 2.
 Lauriston (Victoria). — Baragwanath, W.
 Laurium (Greece).—Lacroix, A.
Laurophyllum.—Hollick, A.
Laurus.—Fliche, P.
 Lausanne Museum.—Jaccard, F., 2.
 Lausitz (Prussia).—Priemel, K.
 Lautite.—Duerr, L., 2.

- Laval (Mayenne).—Ehlert, D. P.
 Lavas, Cape Verde Is.—Harker, A.
 —, Dauphiné.—Glangeaud, P., 4.
 —, Iceland.—Stefansson, J.
 —, Ireland.—Sapper, K., 2.
 —, Mendip Hills.—Reynolds, S. H.
 —, Pávágad Hill.—Fermor, L. L.
 —, Vesuvius.—Bellini, R., 3; Lacroix, A., 1, 2, & 4-6; Scarpa, O.; Szathmáry, L. von.
 Laverda R. (Venetia).—Canestrelli, G., 2.
 Laverton (W. Austral.).—Gibson, C. G.
 Lawsonite.—Eakle, A. S.
 Lazurite.—Zambonini, F., 2.
 Lead, Arizona.—Brinsmade, R. B., 3.
 —, Colorado.—Emmons, S. F., 5.
 —, Cornwall.—Hill, J. B., 2.
 —, German Rhineland.—Freise, F.
 —, Illinois, Iowa, & Wisconsin.—Bain, H. F.
 —, Joplin.—Clerc, F. L.
 —, Kansas.—Haworth, E., 1-3.
 —, Kentucky.—Miller, A. M.
 —, New South Wales.—*See also* NEW SOUTH WALES, Dep. Mines.
 —, Norway.—Vogt, J. H. L., 3.
 —, occurrence of.—Stelzner, A.
 —, Ontario.—Lewis, J. V.
 —, Peru.—Santolalla, F. M., 2.
 —, Saxony.—Beck, R.
 —, Spain.—Sánchez Lozano, R., 2.
 —, Switzerland.—Schmidt, C., 5.
 —, Tasmania.—*See* TASMANIA, Dep. Mines, 1-8.
 —, Utah.—Dern, J.
 —, Western Australia.—Simpson, E. S., 2; *see also* WESTERN AUSTRALIA, Dep. Mines.
 —, Yukon Terr.—McConnell, R. G.
 Leadville (Colo.).—Barker, F. L.; Emmons, S. F., 5.
 Leaf-scars, Carboniferous plant.—Weiss, F. E., 2; *see also* Plants, Carboniferous, &c.
 Leala.—Renier, A., 6.
 Lebanon (Syria).—Henning, E., 2.
 Lecce (Italy).—Camerana, E.
 Led (Kashmir).—Bruce, C. D.
 Leda.—Ihering, H. von, 1 & 2; Wilckens, O., 2.
 Leeds (Yorks).—Bedford, J. E.; Bond, J. W.
 Leesburg Swamp (Ind.).—Scott, W.
 Leicester.—*See* BRITISH ASSOCIATION.
 Leicestershire.—Bosworth, T. O.; Keay, W.; Lapworth, C.; Stracey, B., 1 & 2; Strangways, C. F., 1 & 3; Thompson, B.; *see also* GREAT BRITAIN, Geol. Surv., 2.
 Leighton (Gloucester).—Richardson, L., 8.
 LEIGHTON, T., *Obit.*—*See* Geikie, Sir A., 2.
 Lemming, Quaternary.—Harlé, E.
 Lemudeus.—Roth, S., 3.
 Lemurs, sub-fossil, Madagascar.—Grandidier, G.
 Lena R. District (Siberia).—Gerasimov, A. P.; Preobrazhenski, P. I.; Purington, C. W.
 Lenck (Valais).—Lugeon, M., 2.
 Lengenbachite.—Hutchinson, A., 1 & 2.
 Leobendorf (Lr. Austria).—Scharfer, F. X., 3; Troll, O. von.
 Lepas.—Alessandri, G.
 Lepidocyclina.—Vredenburg, E. W., 3.
 Lepidocyclina-zone.—Sacco, F., 4.
 Lepidodendron.—Kidston, R., 2; Seward, A. C., 1 & 3; Sterzel, J. T.
 Lepidolite.—Schaller, W. T.
 Lepidostrobilus.—Zeller, R., 4.
 Lepontine Alps.—Schmidt, C., 1, 4, & 10.
 Leptæna.—Reed, F. R. C.
 —, limestone, Sweden.—Törnquist, S. L.; Wiman, C.
 Leptocheilus.—Till, A., 5.
 Leptodomus.—Clarke, J. M., 3; Siemiradzki, J. von.
 Leptolepis.—Heineke, E.
 Leptorima & Leptozone.—Perner, J.
 Leptostrophia.—Clarke, J. M., 3.
 'Lettenkohle,' Swabia.—Zeller, F.
 Leucite, igneous rocks &.—Washington, H. S., 3.
 Leucophyre, Bavaria.—Rimann, E., 2.
 LEWIS, A. E., *Obit.*—*See* Jones, T. A., 2.
 Lewisian rocks, Ross-shire.—Flett, J. S.
 Leydsdorp (Transvaal).—Mellor, E. T., 2.
 'Lhers mort' Valley (France).—Blayac, J., 2.
 Lias, Antrim.—Cole, G. A. J., 3.
 —, Buckinghamshire.—Thompson, B., 3.
 —, Gibraltar.—Choffat, P., 4.
 —, Liguria.—Fucini, A.
 —, Lombardy, &c.—Parisich, C., 2.
 —, Lund.—Holst, N. O.
 —, Madagascar.—Thevenin, A.
 —, Savoy.—Kilian, W., 8.
 —, Thuringia.—Schäfer, H. F.
 —, Tuscany.—Fucini, A., 2.
 —, Venetia.—Dal Piaz, G.
 —, Westphalia, &c.—Mestwerdt, A.
 —, Yorkshire.—Walton, F. F.
 —, *See also* Jurassic.
 Libin (Belgian Luxembourg).—Jérôme, A.; Simoens, G., 12.
 Libyan Desert (Egypt).—Stromer, E., 1 & 2.
 Libytherium.—Stromer, E., 3.
 Lichas.—Clarke, J. M., 3; Reed, F. R. C., 8.
 Lickey Hills (Worcester).—Richardson, L., 5.
 Licking Co. (Ohio).—Carney, F., 3.
 Licomeric (Bohemia).—Hinterlechner, K., 1 & 2.

- Liège (Belgium).—Breton, L.; Briquet, A., 2; Destineux, P.; Forir, H.; Fourmarier, P., 2 & 4; Malaise, C.; Munck, E. de; Putzeys, E.; Rauw, H. de; Renier, A., 1-6; Stainier, X.
- Lierre (Antwerp).—Van Ertborn, O., 8.
- Lievrite.—Hemmelbauer, A.
- Lignite, Canada.—Ells, R. W., 3.
- , Dakota.—Wilder, F. A., 2.
- , Dutch Limburg.—Forir, H., 2.
- , France.—Lemière, L.
- , Montana.—Rowe, J. P., 2.
- , Vermont.—Dale, T. N.; Jeffrey, E. C., 2; Perkins, G. H., 4, 5, 9, & 10.
- , Victoria.—Howitt, A. M., 2.
- , Wyoming.—Kennedy, S.
- Liguria (Italy).—Anon., 32; Bellardi, L.; Franchi, S.; Fucini, A.; Kalkowsky, E., 2; Maddalena, L.; Parisch, C.; Rosati, A., 2 & 3; Sacco, F., 1-3 & 5; Taramelli, E. T.
- Lillebonne (Normandy).—Brogard, L.
- Lima.—Ihering, H. von, 2; Tokunaga, S.
- Limagne (Auvergne).—Gonnard, F., 3.
- Limburg (Belgian & Dutch).—Forir, H., 2; Stainier, X., 2; Van Ertborn, O., 1 & 9; Velge, G.
- Limeless ocean, pre-Cambrian.—Daly, R. A.
- Limerick (Ireland).—Lamplugh, G. W., 4.
- Limestone, Carboniferous.—See Carboniferous.
- knolls, Yorkshire.—Wilmore, A.
- Limestone, Alabama.—Emmons, S. F., 4.
- , chemistry of alterations in.—Cosyns, G., 2.
- , Devonian.—Scupin, H.
- , Gard asphaltic.—Nicou, P., 2.
- , Hippuritic.—Ktenas, K. A.
- , Jurassic.—Simionescu, I.
- , Kentucky.—Gardner, J. H.
- , Ohio.—Orton, E., Jun.
- , Permian.—Douville, H., 9.
- , structures of.—Jones, T. A.
- , Troia.—Nelli, B.
- , weathering of.—Cumings, E. R.
- Limfjorden (Denmark).—Jessen, A.
- Limnæa.—Stearns, R. E. C.
- Limoptera.—Clarke, J. M., 3.
- Limpopo R. (S. Afr.).—Voit, F. W., 4.
- Linarite, Wicklow.—Russell, A.
- Lincoln boring.—Hull, E., 2; McKay, W.
- Lincolnshire.—Harmer, F. W.; Sheppard, T.; Stather, J. W., 2; Warren S. H.
- Lindstrœmia.—Første, A. F.
- Lingula.—Clarke, J. M., 3; Reed, F. R. C.; Seely, H. M., 4; Wilckens, O., 2.
- Lingulina.—Silvestri, A., 2.
- Linlithgow Hills (Scotland).—Falconer, J. D.
- Linlithgowshire.—Cadell, H. M.
- LINNÉ, CARL VON.—Holmboe, J. Nathorst, A. G., 5.
- , works of.—See Linné, C. von, 1-3.
- Linopteris.—Renier, A., 6; Sterzel, J. T.
- Lioceras.—Bogdanovich, K. I.
- Lioclema & Lioclemella.—Bassler, R. S.
- Lipari Is.—Hobbs, W. H., 6.
- Liriodendron.—Hollick, A.
- Lisbon (Portugal).—Engerrand, G.
- Lisburne, Cape (Alaska).—Collier, A. J.
- Lithia-mica.—Weidman, S.
- Lithiotis-Beds, Dalmatia.—Schubert, R. J., 2.
- Lithium-bearing minerals.—McCoy, H. N.
- Lithocicada.—Cockerell, T. D. A., 2.
- Lithodomus.—Borisysak, A.; Vadász, E.
- Lithogenesis.—Agnus, A. N., 2.
- Lithographic stone, Bavaria.—Plieinger, F.
- , Würtemberg.—Heineke, E.
- Lithoryssus.—Brues, C. T.
- Little Baddow (Essex).—Salter, A. E., 3.
- Little Don Valley (Yorks).—Watts, W.
- Little Falls (N.Y.).—Cushing, H. P.
- Little River Group, New Brunswick.—Matthew, G. F.
- , Tyrone.—Fearnside, W. G., 3.
- Lituola.—Chapman, F., 6.
- Liverpool (Lancs).—Lomas, J., 5; Pritchard, S. H., 2.
- Livorno (Tuscany).—Nelli, B.; Zaccagna, D.
- Llandovery Beds, Parys Mountain.—Williams, G. J.
- , Tihange-lez-Huy.—Malaise, C.
- Lob Nor (Asia).—Bruce, C. D.
- Lochs, Scotland.—Murray, Sir J., 1 & 2.
- Lochy, Loch (Inverness).—Murray, Sir J.
- Loculipora.—Bassler, R. S.
- Lœss, Lower Rhine district.—Steinmann, G., 3.
- , Nebraska.—Barbour, E. H., 2.
- Lofoten Is. (Norway).—Kolderup, C. F., 4.
- Lofty, Mt. (S. Austral.).—Howchin, W.
- Loire R. (France).—Dollfus, G. F., 2 & 7; Friedel, G., 2; Lemoine, P., 6.
- (—), Pliocene course of the.—Chaput, E.
- Lomagundi (Rhodesia).—Beck, R., 4.
- Lombardy (Italy).—Artini, E. E.; Cacciamali, G. B.; Mariani, E.; Parisch, C., 2; Taramelli, E. T.
- London Basin.—Leriche, M., 2.
- London Clay, Denmark.—Ravn, J. P. J., 2 & 3.
- , Pomerania.—Gagel, C.
- London, recent excavations in.—Barrow, G.
- , water-supply.—Davies, A. M., 3.
- Long I. (N.Y.).—Veatch, A. C.

- Longcliffe (Derby).—Fox, W. S., 2.
Longobardites.—Reis, O. M.
Lophiodon.—Depéret, C., 3.
Lophocetus.—Eastman, C. R., 2.
 Lorenzdorf (Silesia).—Quaas, A.
 Lorraine.—Bergeron, J., 2; Leppla, A., 3; Nicklés, R., 2; Tornquist, A.; Van Werveke, L., 1 & 2.
 Lossiemouth (Elgin).—Woodward, A. S.
 Lothians (Scotland).—Cadell, H. M., 3.
Lotorium.—Ihering, H. von, 2.
 Lötzen-Johannisburg Ry. (E. Prussia).—Kaunhowen, F., 2.
 Louisa (U.S.A.).—Crandall, A. R.
 Louisbourg (Nova Scotia).—McIntosh, K.
 Louisiana.—Aguillon, L.; Fenneman, N. M.; Hobbs, W. H.; Veatch, A. C.
 Loverval (Namur).—Dorlodot, H. de.
 Löwenburg (Rh.-Pruss.).—Busz, H., 3; Mueller, H.
 Lower Greensand, Isère.—Pâquier, V., 2.
Loxoceras.—Ruedemann, R., 2.
Loxonema.—Beede, J. W.; Boulton, H.; Broili, F., 3; Etheridge, R., *fil.*; Gortani, M., 2; Perner, J.; Spitz, A.
 Lübeck (Germany).—Spethmann, H.
 Luc (Calvados).—Cossmann, M., 4.
 Lucca (Tuscany).—Magri, G.
 Lucerne (Switzerland).—Jacob, C., 2.
Lucina.—Icke, H.; Oppenheim, P.; Steinmann, G., 8; Woods, H., 2.
 Ludlow (Salop).—Reade, T. M.
 Luh (Hungary).—Noth, J.
 Luján (Buenos Aires).—Outes, F. F.
 Luleå river-basin (Norrbotten).—Hamberg, A.
 Lummaton (Devon).—Whidborne, G. F.
 Lund (Sweden).—Holst, N. O.
Lunulicardium.—Clarke, J. M., 3; Reed, F. R. C.
 Luossavaara (Sweden).—Stutzer, O., 2.
 Lutétien, Paris Basin.—Combes, P., *fls.*
 —, Sudan.—Chudeau, R.
 —. See also Tertiary.
Lutraria.—Ihering, H. von, 2; Tokunaga, S.
 Luxemburg Prov. (Belgium).—Jérôme, A.; Munck, E. de, 2; Simoens, G., 8 & 12; Stainier, X., 3.
 Luxullian (Cornwall).—Walter, K.
 Luz-en-Barrèges (Hautes-Pyrénées).—Carez, L.
Lycopodites.—Sterzel, J. T.
 Lydenburg (Transvaal).—Hall, E. T.; Humphrey, W. A.
Lyllia.—Förste, A. F.
Lymnæa.—Cockerell, T. D. A., 3.
 Lynx, Cales Dale.—Fox, W. S.
 Lyon Mt. (N.Y.).—Whitlock, H. P., 1 & 6.
 Lyonnais (France).—Riaz, A. de.
Lyonsiaphyllum.—Deane, H.
Lyria.—Ihering, H. von, 2.
Lyriocrinus.—Hudson, G. H.
Lystrosaurus.—Broom, R., 8.
Lytoceras.—Crick, G. C., 5; Paulcke, W.
 Mæander R.—See Mendere R.
 Maas R.—See Meuse R.
 Macallister Valley (Gippsland).—Thiele, E. O.
 Macedonia (Turkey).—Oddone, E.
 Machadodorp (Transvaal).—Humphrey, W. A.
Machæracanthus.—Eastman, C. R., 3.
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 Mâcon (Burgundy).—Lissajous, —.
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Macrauchenia.—Roth, S.
Macrocephalites.—Bœhm, G., 5.
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Macrochilina.—Perner, J.; Spitz, A.
Macrodon.—Stuckenberg, A.; Weller, S.
Macroodus.—Clarke, J. M., 3.
Macropetalichthys.—Hennig, E.
Macropoma.—Mawson, J.
Mactra.—Woods, H., 2.
 Madagascar.—Colcanap, J.; Grandidier, G.; Lemoine, P., 4 & 5; Thevenin, A., 1-5; Thoulet, J.; Trouessart, E.
 Madras Pres. (India).—Walker, T. L., 1 & 2.
 Madre, Sierra (Mexico).—Hovey, E. O., 1 & 2.
 Madrid (Spain).—Adán de Yarza, R., 3; Bentabol, H.; Cortazar, D. de; Garcia del Castillo, J.; Mallada, L.; Montenegro, A.; Sánchez Lozano, R., 4.
 Maestrichtian, Baluchistan. — Vredenburg, E. W., 5.
 Maevetanana (Madagascar).—Colcanap, J.
 Mafeking (Cape Colony).—Du Toit, A. L., 2.
 Magdalena R. (Colombia).—Stille, H.
 Magdeburg (Germany).—Wuest, E., 4.
 Magellan District (S. Am.).—Steinmann, G., 14; see also Patagonia, &c.
 Maglie (Italy).—Camerana, E.
 Magma, kimberlitic supposed.—Bonney, T. G., 5.
 Magmas, rock.—Wolff, F. von, 2.
 —, expressed by parametres.—Levy, M.
 Magmatic assimilation, vein-gneiss &—Holmquist, P. J., 3.
 — waters.—Hixon, H. W.
 Magnesian Limestone, Co. Durham.—Court, G.; Wood, E. S.
 Magnesium-pectolite, Burg.—Reuning, E.
 Magnesite, Malelane.—Hall, A. L.
 Magnetite, California.—Day, D. T.
 —, Canada.—Harrington, B. J.
 —, Lapland.—Stutzer, O., 2.
 —, New Zealand.—Longridge, C. C.

Magnetite, Tyrol.—Berwerth, F., 2; *see also* Iron, &c.
 Mahaikah (Vict.).—Howitt, A. M., 2.
 Maine (U.S.A.).—Barrows, H. K.; Dale, T. N., 3; Emmons, S. F., 4; Ogilvie, I. H., 2; Williams, H. S., 2.
 Mainz Basin (Germany).—Delkeskamp, R.; Mordziol, C.; Schoendorf, F., 3 & 4; Steinmann, G., 5.
 Majella Mts. (Abruzzo).—Angelis d'Ossat, G. de.
 Majorca (Balearic Is.).—Vidal, L. M.
 Makum (Assam).—Simpson, R. R., 2.
 Malachite, Lagonegro.—Lorenzo, G. de, 3.
Malacostroma.—Guerich, G., 1 & 4.
 Malaspina glacier (Alaska).—Tarr, R. S.
 Malay States (Asia).—Rumbold, W. R.; Treacher, Sir W. H.; *see also* MALAY STATES, Geol. Rep.
 Malbe, Mt. (Umbria).—Principi, P.
 Malelane (Transvaal).—Hall, A. L.
 Malines (Belgium).—Halet, F.
Malletia.—Wilckens, O., 2.
 Mallieue (Liège).—Rauw, H. de.
Malocystites.—Hudson, G. H.
 Mammalia, Cretaceous.—Ameghino, F., 3; Roth, S., 1 & 3.
 —, evolution of teeth.—Laloy, L.
 —, flippers of.—Lydekker, R., 2.
 —, geological distribution of.—Steinmann, G., 12.
 —, Quaternary.—Bovard, J. F.; Conwentz, H.; Dollo, L., 4; Fox, W. S., 1 & 2; Fraas, E., 4; Hahn, W. L.; Harlé, E.; Herscheler, K.; Hinton, M. A. C.; Horusitzky, H.; Hutton, M. A. C.; Leroy, J.; Lœnnberg, E.; Lull, R. S.; Merriam, J. C., 3; Mertens, A.; Nüesch, J.; Pavlov, M.; Phleps, O.; Pilgrim, G. E.; Reynolds, S. H., 3; Roth, S., 2; Portis, A., 5-7; Stefano, G. de, 3; Studer, T.; Toula, F., 1 & 2; Trouessart, E.; Woodward, A. S., 6; Zdarsky, A.
 —, Tertiary.—Ameghino, F., 1-6; Andrews, C. W., 1-3; Athanasius, S.; Barbour, E. H., 3; Depéret, C., 1-3; Gaudry, A.; Gidley, J. W., 2; Gilmore, C. W., 2; Leenhardt, —; Loomis, F. B., 1 & 2; Lull, R. S.; Lydekker, R., 4; Martelli, A.; Matthew, W. D., 1-4; Merriam, J. C., 1, 4-6; Osborn, H. F.; Peterson, O. A.; Portis, A., 6; Roth, S., 1 & 3; Schlosser, M.; Scott, W. B.; Seguenza, L.; Shattuck, G. B.; Sinclair, W. J.; Stehlin, H. G.; Stromer, E., 2 & 3; Tokunaga, S.; Vasseur, G.; Winge, H.
 —. *See also* Cetacea, &c.
 Mammalian remains and stone-implements, Rhodesia.—Mennell, F. R., 4.
 — skull & Cynodonts.—Broom, R., 2.
 Mammoth, age of.—Carey, A. E.
 — Flanders.—Mourlon, M., 7.
 —, Gironde.—Labrie, J.
 —, history of the.—Lœnnberg, E.

Mammoth, Maryland.—Shattuck, G. B.
 —, restoration of.—Pfezenmayer, E.
 —, tusks of.—Lucas, F. A.
 Man, I. of.—Bedford, James; Hind, W.; Lewis, F. J., 3; Patterson, G. D.; Reade, T. M., 2.
 Man, age of.—Anon., 36.
 —, Palæolithic.—Brogger, A. W., 1-3; Kane, W. P. De V.
 —, Quaternary.—Adloff, —; Barbour, E. H., 2; Bœchler, E.; Carey, A. E.; Favraud, A.; Gorjanović-Kramberger, D., 2; Gorjanović-Kramberger, K.; Lehmann-Nitsche, R., 1 & 2; Nœtling, F.; Nüesch, J.; Obermaier, H.; Portis, A., 5; Stanley, W. F.
 —, Tertiary.—Ameghino, F., 3.
 Manchuria (N.E. Asia).—Palibin, J. V., 4.
 Manche (Normandy).—Heurteau, C. E.
 Manganese, Brazil.—Oliviera, S. de.
 —, Hesse.—Bodifée, —.
 —, India.—Fermor, L. L., 2 & 5.
 —, occurrence of.—Johnstone, S. J.; Stelzner, A. W.
 —, Rome.—Tuccimei, G.
 —, Switzerland.—Schmidt, C., 5.
 Manganese-spinel, Menyháza.—Krenner, J.; Loczka, J.
 Manganotantalite.—Schaller, W. T.
 Mangishlak Peninsula (Transcasian).—Sinzov, J., 2.
 Mangoli I. (Sula Is.).—Bœhm, G., 5.
 Manhattan (Nevada).—Ransome, F. L., 2.
 Manitou District (Colo.).—Finlay, G. I., 2.
 Manlius Limestone, New York.—Prosser, C. S.
 Mansfeld (Prussia).—Wuest, E., 5.
 Mansfield (Vict.).—Howitt, A. M., 4.
 Mannan Creek (Zululand).—Crick, G. C., 5.

MAPS.

AFRICA (CENTRAL).

FRENCH CONGO (*various*). 1907.—Levat, D.

AFRICA (NORTH).

ALGERIA. Carte géologique détaillée. ¹/_{50,000}—Jacob, —. (Directeur).

24. Azazga, par E. Fichet & J. Savornin. 1906.

44. Dra-el-Mizane, par E. Fichet & J. Savornin. 1906.

82. Oued Fodda, par A. Brives. 1906.

115. Bordj-Bou-Arreidj, par J. Savornin. 1906.

EGYPT. Eastern Desert. ¹/_{500,000}. 1907.—Hume, W. F., 2.

— Nile Valley. Aswan Cataract. ¹/_{50,000}. 1907.—Ball, J.

— Sinai (*various*). 1906.—Hume, W. F.

AFRICA (SOUTH).

CAPE COLONY. Geological Commission. Geological map. ¹/_{228 000}.
Rogers, A. W. (Director).

Sheet 2. Swellendam, Heidelberg, & Riversdale, 1907, by A. W. Rogers & E. H. L. Schwarz.

Sheet 4. St. Helena Bay, Saldanha Bay, Wellington, Portirville, & Worcester, 1906, by A. W. Rogers, E. H. Schwarz, & A. Du Toit.

Sheet 45. Maremane Native Reserve, Bechuanaland, Hay, & Barkley, 1907, by A. W. Rogers.

—, George, Knysna, &c. 1 inch = about 3 miles. 1906.—Schwarz, E. H. L.

—, Hay & Prieska. 1 inch = about 4 miles. 1906.—Rogers, A. W., 6.

—, Indwe. 1 inch = about 1½ miles. 1906.—Du Toit, A. L.

—, Mossel Bay, Klein-Brak River Raised Beach. 1 inch = about 4 miles. 1906.—Rogers, A. W., 3.

—, Uitenhage & Alexandria. 1 inch = about 3 miles. 1906.—Rogers, A. W., 2.

—, Vryburg & Mafeking. 1 inch = about 4 miles.—Du Toit, A. L., 2.

NATAL. Alfred Co. 1 inch = 1 mile. 1907.—See NATAL, 2.

— & ZULULAND. Hlabisa & Somkeke Coalfield. 1 inch = about 1½ miles. 1907.—See NATAL, 2.

—, Nondweni Goldfield. 1 inch = 453 feet.—See NATAL, Rep. Mining.

—, ZULULAND, part of. 1 inch = 10 miles. 1907.—Crick, G. C., 5.

ORANGE RIVER COLONY. Goldfield. 1 inch = about 17 miles. 1907.—Sawyer, A. R.

RHODESIA. Batoka Gorge of the Zambezi. 1 inch = 10 miles. 1907.—Lamplugh, G. W., 2.

—, Bulawayo. 1 inch = 4 miles. 1904.—Mennell, F. P.

TRANSVAAL. Geological Survey. Geological map, 1 inch = 2·35 miles. Pretoria. 1907.—Kynaston, H., 3.

—, Johannesburg. 1 inch = about 2½ miles. 1907.—Kynaston, H., 2.

—, Lydenburg District. 1 inch = about 2½ miles. 1907.—Hall, E. T.

—, Lydenburg & Carolina Districts. 1 inch = about 2½ miles. 1907.—Humphrey, W. A.

—, Pretoria & Rustenburg Districts (*two*). 1 inch = about 2½ miles. 1907.—Humphrey, W., 3.

—, Middelburg. 1 inch = 8 miles. 1907.—Mellor, E. T., 3.

AFRICA (SOUTH).

TRANSVAAL. Middelburg District. Witbank Coalfield. 1 inch = about 2½ miles. 1906.—Mellor, E. T.

—, — & Pretoria Districts. 1 inch = about 2½ miles. 1907.—Mellor, E. T., 5

AFRICA (WEST).

NIGERIA. Oban Hills. 1 inch = about 23 miles. 1907.—Parkinson, J.

AMERICA (CENTRAL).

MEXICO. Cerro Muleros, &c. (*various*). 1907.—Philippi, E., 3.

—, Volcanoes of Jorullo (after E. Ordóñez). 2 inches = about 1 mile. 1907.—Cadell, H. M., 2.

WEST INDIES. Barbados (N.-E.). 1 inch = 1 mile. 1907.—Harrison, J. B.

AMERICA (NORTH).

ALASKA. Admiralty I. (*various*). 1906.—Wright, C. W.

—, Cape Lisburne. 1 inch = 12½ miles. 1906.—Moffit, F. H.

—, Circle City district. 1 inch = 65 miles. 1906.—Prindle, L. M.

—, Juneau gold-belt (*various*). 1906.—Spencer, A. C.

—, Matanuska coalfield. 1 inch = 5½ miles. 1906.—Martin, G. C.

—, Rampart placer-district. 1 inch = 12½ miles & 1 inch = 5 miles. 1906.—Prindle, L. M., 2.

—, Seward Peninsula. ¹/_{5,000,000}. 1906.—Korsuchin, J.

— (S.E.). 1 inch = about 35 miles. 1906.—Brooks, A. H., 2.

CANADA. British Columbia. Queen Charlotte Is. Graham I. 1 inch = 4 miles. 1907.—See BRITISH COLUMBIA.

—, Geological Survey (*various*). 1906.—See CANADA, Geol. Surv., 2.

—, Hudson Bay & the Arctic Islands. 1 inch = 50 miles. 1906.—Low, A. P.

—, New Brunswick. Albert Co. 1 inch = 1 mile. 1906.—Bailey, L. W.

—, —, St. John Harbour & *Archaeozoon*-localities. 1 inch = about 3 miles. 1907.—Matthew, G. F., 2.

—, Ontario. Larder-Lake district. 1 inch = 1 mile. 1907.—Brock, R. W., 2.

—, —, Sudbury. 1 inch = 7 miles. 1907.—Coleman, A. P., 2.

—, Quebec (Southern). 1 inch = 15 miles. 1906.—Dresser, J. A.

—, —, Chibougamou. 1 inch = 4 miles. 1906.—Low, A. P., 2.

—, —, Gaspé Co. Percé Rock. 8 inches = 1 mile. 1905.—Clarke, J. M., 2.

AMERICA (NORTH).

CANADA. Richmond. 1 inch=about 1 mile. 1906.—Dresser, J. A.

— Yukon Terr. Tagish Lake, Windy-Arm District. 1 inch=2 miles. 1905.—McConnell, R. G.

UNITED STATES.

ALABAMA. 1 inch=about 28 miles. (Two) 1906.—See ALABAMA, Geol. Surv.

— Warrior Coalfield. 1 inch=about 5 miles. 1906.—Emmons, S. F., 3.

ARIZONA. Bisbee District [*scale not given*]. 1907.—Brinsmade, R. B.

ARKANSAS (Southern) & LOUISIANA (Northern). 1 inch=16 miles. 1906.—Veatch, A. C.

ATLANTIC COAST, earthquake and geological. 1 inch=about 145 miles. 1907.—Hobbs, W. H., 5.

CALIFORNIA. San Francisco Peninsula. 1 inch=4 miles. 1907.—Crandall, R., 2.

— Santa Maria Oil-District. 1 inch=2 miles. 1907.—Arnold, R., 4.

— Tehachapi Valley. 1 inch=4 miles. 1906.—Lawson, A. C., 2.

— & NEVADA, parts of. 1 inch=4 miles. 1907.—Ball, S. H.

COLORADO. Arkansas R. Valley (*various*). 1906.—Darton, N. H., 4.

— Hahn's Peak. 1 inch=1 mile. 1906.—Emmons, S. F., 3.

— Leadville. 1 inch=400 feet. 1907.—Emmons, S. F., 5.

— Rio Blanco Co. coal. 1 inch=1 mile. 1907.—Emmons, S. F., 4.

— Yampa Coalfield. 1 inch=4 miles. 1906.—Emmons, S. F., 3.

— —. 1 inch=12 miles & 1 inch=2 miles. 1906.—Fenneman, N. M., 2.

— & NEW MEXICO. Durango-Gallup Coalfield. 1 inch=15 miles. 1906.—Emmons, S. F., 3.

CONNECTICUT. 1 inch=24 miles. 1906.—Fuller, M. L.

— 1 inch=4 miles. 1907.—Gregory, H. E., 2.

— 1 inch=6 miles (& *others*). 1906.—Rice, W. N., 2.

— (Central). Glacial deposits. 1 inch=about 2 miles. 1905.—Loughlin, G. F.

Geological Survey. C. D. Walcott (Director). ^{125,000'}

136. St. Marys (Md. & Va.). 1906.

137. Dover (Delaware & Md.). 1906.

138. Redding (Cal.). 1906.

139. Snoqualmie (Wash.). 1906.

140. Milwaukee (Wisc.). [Special folio ¹_{67,500'}] 1906.

AMERICA (NORTH).

UNITED STATES.

GEORGIA. 1 inch=40 miles. 1906.

— Harper, R. M.

IDAHO. St. Joe River. 1 inch=about 5 miles. 1906.—Emmons, S. F., 3.

—, WYOMING, & UTAH. Carboniferous phosphatic beds. 1 inch=16 miles. 1907.—Emmons, S. F., 4.

IOWA (*various*). 1906.—See IOWA, Geol. Surv.

KANSAS. Galena District. 3 inches=about 4 miles. 1904.—Haworth, E., 3.

— Independence (*various*). 1906.—Schrader, F. C.

KENTUCKY. Oil & gas (*various*). 1905.—Hoing, J. B.

— (Central). Lead-&-zinc veins. 1 inch=473 miles. 1905.—Miller, A. M.

— (East Central). Silurian, Devonian, and Irvine Formations. 1 inch=26 miles. 1906.—Første, A. F.

— & TENNESSEE. 1 inch=19 miles. 1906.—Glen, L. C.

MAINE (*various*). 1907.—Ogilvie, I. H., 2.

— Granite Districts. 1 inch=16 miles. 1907.—Dale, T. N., 3.

MICHIGAN. 1 inch=about 22 miles. 1906.—Leverett, F.

MISSISSIPPI (State of) (*various*). 1906.—Crider, A. F., 1 & 2.

— Valley, Upper (Wisconsin, Iowa, & Illinois), *various*. 1906.—Bain, H. F.

MISSOURI. 1 inch=45 miles. 1906.—Shepard, E. M.

MONTANA. Maryville. 2 inches=1 mile. 1907.—Barrell, J.

— (Northern), drift. 1 inch=20 miles. 1906.—Calhoun, F. H. H.

NEVADA (*various*). 1907.—Ransome, F. L., 2.

NEW MEXICO. Roswell. 1 inch=9½ miles. 1906.—Fisher, C. A., 2.

— Silver-Peak District. 1 inch=2 miles. 1906.—Spurr, J. E.

NEW HAMPSHIRE. Moultonboro, Red Hill. 1 inch=1½ miles. 1907.—Pirsson, L. V.

NEW JERSEY. Newark (Triassic) System. 1 inch=4¾ miles; 1 inch=5½ miles; & 1 inch=11 miles.

1907.—Lewis, J. V., 2.

— Watchung Mts. 1 inch=3 miles. 1907.—Lewis, J. V., 5.

NEW YORK. 1 inch=15 miles. 1905.—Rafter, G. W.

— (*various*). 1905 & 1906. See also NEW YORK STATE, Museum, 2.

— Adirondack Region (*various*).—1905.—Cushing, H. P., 2.

AMERICA (NORTH).

UNITED STATES.

NEW YORK. Buffalo. 1 inch=1 mile.

1906.—Luther, D. D.

— Cobleskill and Schoharie Valleys. 1 inch=1 mile. 1906.—Grabau, A. W., 3.

— Drumlins (*various*). 1907.—Fairchild, H. L., 4.

— Economic deposits. 1 inch=12 miles. 1905.—Merrill, F. J. H.

— Glacial Lakes, Albany & Vermont, and the Champlain marine deposits. 1 inch=40 miles. 1905.—Woodworth, J. B., 2.

— Mooers Quadrangle. 1 inch=1 mile, &c. 1905.—Woodworth, J. B.

— Ontario shore-lines (*various*). 1906.—Fairchild, H. L., 2.

— Orange Co. Trilobite Mt. 6 inches=1 mile. 1905.—Shimer, H. W.

— Paradox-Lake District. 1 inch=1 mile. 1905.—Ogilvie, I. H.

— Penn Yan & Hammondsport. 1 inch=1 mile. 1906.—Luther, D. D., 2.

— Rye and vicinity. 1 inch=1 mile. 1905.—Merrill, F. J. H.

— Skunemunk Mts., Orange Co., Cornwall Station. 4 inches=1 mile. 1907.—Hartnagel, C. A., 2.

— Tarrytown, &c. 1 inch=10 miles. 1907.—Berkey, C. P., 2.

— & VERMONT. Hampton and Granville. 1 inch=1 mile. 1906.—Dale, T. N.

OHIO. Limestones. 1 inch=about 35 miles. 1906.—Orton, E., Jun.

PENNSYLVANIA. Amity (*various*). 1907.—Clapp, F. G., 2.

— Beaver Co. 1 inch=1 mile. 1906.—Woolsey, L. H.

— Green Co. 1 inch=1 mile. 1907.—Stone, R. W.

— Kittanning Valley. 1 inch=1 mile. 1906.—Butts, C.

— & WEST VIRGINIA (*various*). 1907.—Griswold, W. T.

RHODE ISLAND. 1 inch=1 mile. 1907.—Emerson, B. K.

TEXAS. Clays. 1 inch=about 100 miles. 1907.—Ries, H.

UTAH. Bingham (*sketch-map*). 1907.—Brinsmade, G. B., 4.

— Book Cliffs Coalfield. 1 inch=about 6 miles. 1906.—Emmons, S. F., 3.

— Sanpete Valley. 1 inch=4 miles. 1907.—Richardson, G. B.

VERMONT. Poultney and Castleton. 1 inch=1 mile. 1906.—Dale, T. N., 2.

— (*various*). 1904.—Perkins, G. H., 2 & 3.

AMERICA (NORTH).

UNITED STATES.

WASHINGTON. Olympic Peninsula. 1 inch=7 miles & 1 inch=30 miles.

1906.—Arnold, R.

WYOMING. Bighorn Basin. 1 inch=4 miles. 1906.—Fisher, C. A.

— Bighorn Mts. 1 inch=2 miles, 1 inch=4 miles, & 1 inch=20 miles. 1906.—Darton, N. H.

— Owl Creek Mts. 1 inch=4 miles & 1 inch=11 miles. 1906.—Darton, N. H., 5.

— Snake-River placers. 1 inch=10 miles. 1907.—Emmons, S. F., 4.

— Uinta Co. Coalfield. 1 inch=5 miles; also Oilfields. 1 inch=5 miles. 1906.—Emmons, S. F., 3.

—, &c. Ordovician. 1 inch=about 124 miles. 1906.—Darton, N. H.

AMERICA (SOUTH).

ARGENTINA. Andes. Puenta del Inca (Aconcagua). $\frac{1}{250,000}$. 1907.—Schiller, W.— Patagonia (*various*). 1906.—Ameghino, F., 3.— Lake Argentina & Last Hope Inlet. $\frac{1}{500,000}$. 1907.—Wilckens, O.— & CHILE. Volcanoes. $\frac{1}{10,000,000}$. 1904.—Hauthal, R.BOLIVIA & CHILE. $\frac{1}{3,000,000}$. 1907.—Courty, G., 3.

ANTARCTIC REGIONS.

South Victoria Land. 1 inch=4 geogr. miles. 1906.—BRITISH MUSEUM, 2.

EUROPE.

AUSTRIA-HUNGARY. Bohemia. Braun District. $\frac{1}{50,000}$. 1907.—Seemann, F.— Deutschbrod. $\frac{1}{50,000}$. 1907.—Hinterlechner, K., 2.— Rothau. $\frac{1}{55,000}$. 1907.—Heinich, R.— Dalmatia. Pantadura I. $\frac{1}{75,000}$. 1907.—Schubert, R. J., 6.— Zara & Nona. $\frac{1}{50,000}$. 1907.—Schubert, R. J., 4.— Galicia. Nowy Targ. $\frac{1}{250,000}$. 1907.—Fiedberg, W.— Hungary. Geologische Anstalt, $\frac{1}{75,000}$ Geological Map. Zone 25.

Kol. xxvi. Krassova & Teregoval, by L. Roth von Telegd, F. Schafarik, K. von Adda, & J. Boeckh. 1906.

— Mittelgebirge. Gerecsgebirge. $1\frac{1}{2}$ inches=about 3 miles. 1906.—Staff, H. von.— Transylvania. Borszék-Hargita Mt. District, 1 inch=about 60 miles; & Borszék District, 1 inch=about $2\frac{1}{2}$ miles. 1905.—Pálffy, M. von.

EUROPE.

AUSTRIA-HUNGARY. Hungary.

Transylvania. Kazanesd. 1 inch
=about 163 yards. 1906.—Lackner,
L.

— Istria. $\frac{1}{1,190,000}$. 1906.—Waagen,
L.

— Tyrol. Brixen Granite-District.
 $\frac{1}{123,000}$. 1906.—Sander, B.

— — Kaisergerbirge. $\frac{1}{33,000}$
1907.—Leuchs, K.

— — Presanella Mt. $\frac{1}{100,000}$.
1906.—Trener, G. M.

— — Ortler. $\frac{1}{75,000}$. 1905.—
Frech, F.

— — Ortler Alps. Laaser
Mt. $\frac{1}{90,500}$. 1906.—Hammer, W.

— & ITALY. Adige Valley & Lake
Garda glacial deposits. 1907.—
Penck, A., 4.

BELGIUM. Belgian Ardenne. $\frac{1}{500,000}$.
1907.—Fourmarier, P., 3.

— Brabant. Braine-le-Comte.
 $\frac{1}{400,000}$. 1907.—Hankar-Urban, A.,
2.

— Charleroi, Andenne, Dinant, &
Han-sur-Lesse. $\frac{1}{160,000}$. 1907.—Four-
marier, P.

— Hainault coalfield (Eastern
part of). $\frac{1}{167,000}$. 1905.—Lemière,
L.

— Liège. Huy. $\frac{1}{40,000}$. 1907.—
Fourmarier, P., 2.

— — Pays de Herve. $\frac{1}{100,000}$.
1906.—Forir, H.

— — Theux Massif. $\frac{1}{160,000}$ &
 $\frac{1}{20,000}$. 1906.—Fourmarier, P., 2.

— Luxemburg (Belgian). Bas-
togne. $\frac{1}{160,000}$. 1907.—Stainier, X.,
3.

— Meuse Valley north of Liège.
1 inch = $7\frac{1}{2}$ miles.—Briquet, A., 2.

— Namur. Condruz massif be-
tween Loverval & Floreffe. $\frac{1}{40,000}$.
1898.—Dorlodot, H. de.

— — Maulenne-fault district.
 $\frac{1}{40,000}$. 1907.—Dorlodot, H. de.

CRETE. Sitia. $\frac{1}{100,000}$. 1903.—Cha-
likiopoulos, L.

DENMARK. Geologiske Undersögelse.
 $\frac{1}{100,000}$. Sheets Aalborg & Nibe. 1905.

— Jessen, A.

— — Skamlingsbanke. $\frac{1}{100,000}$.
1907.—Jessen, A., 2.

— — Stenstrup post-
Glacial deposits. 1903.—Madsen,
V.

— Jutland Moraines. $\frac{1}{800,000}$. 1907.
—Ussing, N. V.

FRANCE. Service de la Carte géolo-
gique. Carte géologique détaillée
de la France. $\frac{1}{80,000}$. Aug. M. Lévy
(Directeur).

64. Chartres, by G. Dollfus.
1906.

EUROPE.

FRANCE.

76. Laval, by D. Ehlert, A.
Bigot, & H. Matte. 1906.

81. Sens, by Potier H. Thomas.
1907.

106. Angers, by L. Bureau &
J. Welsch. 1907.

155. Guéret, by A. de Launay.
1907.

181. Libourne, by G. Vasseur,
J. Blayac, & J. Replin.
1907.

220. St. Affrique, by — Fabre, J.
Bergeron, — Nicklès, &
— Anthelin. 1907.

226. Bayonne, by G. Vasseur, —
Seunes, — Maury, & —
Savornin. 1906.

250. Urdos, by A. Bresson
1907.

264. Ajaccio, by J. Deprat. 1906.

FRANCE. Allier. Bézenet-Montvicq
coalfield. $\frac{1}{83,334}$. 1905.—Lemière,
L.

— Alpes-Maritimes. Vence. $\frac{1}{10,000}$.
1906.—Guebhard, A.

— Brittany and Normandy.
 $\frac{1}{2,000,000}$. 1907.—Bigot, A., 2.

— Gard. Asphalt-Region. $\frac{1}{100,000}$.
1906.—Nicou, P.

— Loire Basin coalfield.
1905.—Lemière, L.

— Lorraine. Meurthe-et-Moselle.
Secondary Formations. $\frac{1}{200,000}$. 1907.
—Nicklès, R., 2.

— Nord & Pas-du-Calais coalfield.
 $\frac{1}{202,500}$. 1905.—Lemière, L.

— Normandy, $\frac{1}{500,000}$; May à St.
André, St. Rémy à Jurques, Per-
rières à Barbey, Mortain, & La
Ferrière et Halouze, all $\frac{1}{120,000}$. 1907.
—Heurteau, C. E.

— Provence. Gardanne & Mar-
seille. $\frac{1}{200,000}$. 1906.—Boistel, A.

— Pyrenees (*varigues*). 1904-06.
—Carez, L., 3.

— — (eastern). $\frac{1}{1,800,000}$. 1907.
—Bertrand, K., 2.

— Franco-Belgian coalfield. $\frac{1}{1,700,000}$.
1905.—Lemière, L.

GERMANY. ALSACE. Markirch.
 $\frac{1}{25,000}$. 1907.—Rhein, A.

ANHALT & MAGDEBURG. $\frac{1}{500,000}$.
1907.—Linstow, O. von, 2.

BADEN. Odenwald, Katzenbuckel.
 $\frac{1}{10,000}$. 1907.—Freudenberg, W.

— Wartenberg. $\frac{1}{10,000}$. 1907.—
Becker, E.

BAVARIA. Allgäu, Tretlach, &
Traufbach Valleys. $\frac{1}{25,000}$. 1907.

— Schulze, G.

— Herzogstand Heimgarten
Mts. $\frac{1}{25,000}$. 1907.—Knauer, J.

EUROPE.

GERMANY.

- HANOVER. Ems Valley & the Hummling. $\frac{1}{250,000}$. 1906. — Schucht, F.
- Hildesheim. $\frac{1}{200,000}$. 1907. — Menzel, H., 2.
- HESSE. Geologische Karte. $\frac{1}{25,000}$. Blatt Viernheim & Küferthal. 1906. — Schottler, W.
- Schwalm R. district basalt. $\frac{1}{100,000}$. 1907. — Wiegel, H., 2.
- LORRAINE (German). St. Quirin & Laschenborn, about 3 inches = about $1\frac{1}{4}$ miles. 1907. — Tornquist, A.
- PRUSSIA (East) (*various*). 1906. — Klantzsch, A.
- PRUSSIAN SILESIA. Görlitz Brown-Coal District. $\frac{1}{125,000}$. 1907. — Priemel, K.
- RHENISH PRUSSIA. Brohl Valley. $\frac{1}{25,000}$. 1907. — Völzing, K.
- Cologne. 1 inch = about 5 miles. 1906. — Rauff, H.
- SCHLESWIG-HOLSTEIN. Uetersen & Schulau. $\frac{1}{25,000}$. 1907. — Schröder, H.
- THURINGIA. Friedrichroda. $\frac{1}{25,000}$. 1907. — Schneider, O.
- Rhön Mts., &c. $\frac{1}{25,000}$ & $\frac{1}{1,500,000}$. — Buecking, H.
- WESTPHALIA. Siegen. $\frac{1}{100,000}$. 1905. — Stelzner, A. W.
- Siegen district. 1 inch = about $4\frac{1}{2}$ miles. 1907. — Denckmann, A., 3.
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- ITALY. Apulia. Maglie. $\frac{1}{25,000}$. 1906. — Camerana, E.
- Calabria, Lipari Is. & part of Sicily (*various*). 1907. — Hobbs, W. H., 6.
- Latium, Lake Bolsena, Grotte di Castro. $\frac{1}{10,000}$. 1907. — Orzi, D.
- Naples. Phlegrean Fields. $\frac{1}{75,000}$. 1907. — Stefani, C. de, 4.
- —, Vesuvius. 1 inch = about 3 miles. 1907. — Sabatini, V.
- —, water-level near. $\frac{1}{250,000}$. 1907. — Cesari, C.
- Piedmont. Cuneo. $\frac{1}{100,000}$. 1907. — Sacco, F., 9.
- —, Turin. $\frac{1}{100,000}$. 1906. — Sacco, F., 3.
- — & Liguria, Scrivia Valley. $\frac{1}{100,000}$. 1906. — Sacco, F., 5.
- Sicily. Messina, Peloritana Mt. $\frac{1}{75,000}$. 1907. — Lotti, B.
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- —, Verona district. $\frac{1}{250,000}$. 1907. — Nicolis, E., 2.

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- —, 1 inch = 5 kilom. 1904. — Kolderup, C. F.
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- RUSSIA. Caucasus, South-Eastern. $\frac{1}{210,000}$. 1906. — Bogdanovich, K. I.
- Finland (Southern). 1 inch = about 60 miles. 1907. — Ramsay, W.
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- Perm. Nijni Tagil. $\frac{1}{105,000}$. 1906. — Yakovlev, N., 2.
- Riazan & Tambov Govs. $\frac{1}{420,000}$. 1906. — Bogoslovski, M.
- SARDINIA. Murra District. $\frac{1}{250,000}$. 1907. — Deninger, K.
- SAXONY. Erzgebirge, Chemnitz, & Freiberg. $\frac{1}{25,000}$. 1906. — Gäbert, C.
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- —, 1 inch = about 1 mile. 1905. — Stelzner, A. W.
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- Land's End. 1 inch = about 5 miles. 1907.—Reid, C., 2.
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- , —, —, Wellington District. 1 inch=3½ miles. 1906.—Ussher, W. A. E.
- , —, Warwickshire Coalfield. 1 inch=3 miles. 1907.—Grayston, F. A.
- , —, Yorkshire. Craven & Burnley District. 1 inch=4 miles. 1907.—Wilmore, A.
- , —, Ingleton District. 6 inches=1 mile. 1907. Rastall, R. H., 2.
- , —, (North-East). 1 inch=2 miles. 1907.—Strangways, C. F., 2.
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- , —, Geological Survey. 1-inch Geological Map. Limerick. Sheets 143-144 (Drift). Colour-printed. 1907.—Lamplugh, G. W., 4.
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- , —, Co. Mayo & North Galway (two maps). 1 inch=6 miles. 1907.—Kilroe, J. R.
- , —, Tyrone. Pomeroy. 2½ inches=1 mile. 1907.—Fearnside, W. G., 4.
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- , —, Lanarkshire. Shettleston. 1 inch=1 mile. 1907. — GREAT BRITAIN, Geol. Surv., 2.
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- , —, (Upper). Myingyan. Gwegyo Anticline. 1 inch=1 mile. 1906.—Pascoe, E. H., 3.
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- , —, Shan-tung. Sin-t'ai & Chang-Hia Districts. ¹/_{175,000}. 1907.—Ruehl, A., 2.
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- , —, Assam (Upper). Jaipur & Nazira coalfields. 1 inch=4 miles. 1906.—Simpson, R. R.
- , —, Makum. 1906.—Simpson, R. R., 2.
- , —, Mysore. Chitaldrug District. 1 inch=4 miles. 1907.—Sampat Iyengar, P.
- , —, Kolar goldfield. 1 inch=2 miles. 1905.—Smeeth, W. F.
- , —, Shimoga & Kadur Districts. 1 inch=4 miles & 1 inch=1 mile. 1907.—Slater, K. K.
- INDO-CHINA. Yunnan (*various*). 1907.—Lantenais, H.
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- , —, Amur District. 1½ inch=10 miles. 1904.—Ivanov, M. M.
- , —, Amgun R. 1¼ inches=10 miles. 1904.—Khlaponin, A.
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- , —, Zeia R. (*various*). 1904-06.—Ahmert, E. E.
- , —, Lena District. Olekma & Vitim Rivers. ¹/_{210,000} & ¹/_{840,000}. 1905.—Gerasimov, A. P.
- , —, (E). Tschuktschen Peninsula. ¹/_{860,000}. 1906.—Korsuchin, J.
- , —, Turgai Prov. Aktiubinsk. 1 inch=6 miles. 1905.—Tikhonovich, N.
- TURKESTAN. Sir Daria. Tashkent. ¹/_{840,000}. 1905.—Weber, V. N.

AUSTRALASIA.

NEW SOUTH WALES. Newbridge.
 $\frac{2}{3}$ inch = 1 mile. 1907.—Benson,
 W. N.

— Warrumbungle Mts. 1 inch =
 about $2\frac{1}{2}$ miles. 1907.—Jensen,
 H. I., 2.

NEW ZEALAND. Geological Survey.
 Aorere District. 1 inch = 1 mile.
 1907.—NEW ZEALAND, Dep. Mines,
 2.

— Parapara R. Boulder
 Lake. 1 inch = 30 chains. 1907.—
 NEW ZEALAND, Dep. Mines, 2.

— Washbourn District.
 1 inch = 10 chains. 1907.—NEW
 ZEALAND, Dep. Mines, 2.

— Otago. Alexandra District
(various). 1906.—Park, J.

QUEENSLAND. Clermont. Black
 Ridge, 1 inch = 25 chains & 1 inch
 = 5 chains; The Springs, 1 inch =
 10 chains; & McMasters, 1 inch =
 10 chains. 1906.—Ball, L. C.

— Stanhills Tinfields. 1 inch =
 180 chains & 1 inch = 45 chains.
 1907.—Dunstan, B., 3.

SOUTH AUSTRALIA. Central District
(various). 1905.—Davidson, A. A.

TASMANIA *(various)*. 1906.—See
 TASMANIA, Dep. Mines.

— Cox's Bight. 1 inch = $\frac{1}{4}$ mile.
 1906.—Twelvvetrees, W. H.

VICTORIA. Department of Mines
(various). 1907.—See VICTORIA,
 Dep. Mines.

— Buchan Caves. 4 inches =
 1 mile. 1907.—Kitson, A. E., 6.

— Edi & Myrrhe Turquoise-Belt.
 1 inch = 2 miles. 1906.—Howitt,
 A. M.

— Gippsland, Wonga Wonga.
 1 inch = $\frac{1}{2}$ mile. 1906.—Ferguson,
 W. H.

— Lauriston - Drummond North
 Goldfield. 4 inches = 1 mile. 1907.
 —Baragwanath, W.

— Mansfield Phosphate of Alumina
 Beds. 1 inch = $\frac{1}{4}$ mile. 1906.—
 Howitt, A. M., 4.

— Portland Diatomaceous De-
 posits. 1 inch = 1 mile. 1906.—
 Kitson, A. C., 4.

— Welshpool - Hedley District.
 1 inch = $\frac{1}{2}$ mile. 1906.—Kitson,
 A. E., 5.

— Whitfield South Alluvial Gold-
 Workings. 1 inch = $\frac{1}{2}$ mile. 1906.—
 Howitt, A. M., 3.

WESTERN AUSTRALIA. 1 inch =
 150 miles. 1907.—Maitland, A. G.

— Geological Survey. Mt. Mar-
 garet Goldfield. Burtville, 4 inches
 = 1 mile; Heapy's Find, 4 inches =
 1 mile; Lancefield, 4 inches = 1 mile;
 & Laverton, 4 inches = 1 mile. 1906.
 —Gibson, C. G.

AUSTRALASIA.

WESTERN AUSTRALIA. Kimberley
 District. 1 inch = 12 miles. 1906.

—Jack, R. L.

— Ashburton & Minyia Rivers
 District. 1 inch = 25 miles. 1907.
 —Woodward, H. P.

— Dandaraga phosphates. 1 inch
 = 1 mile. 1907.—Campbell, W. D.,
 2.

— Greenhough River District.
 1 inch = 1 mile. 1907.—Campbell,
 W. D.

— Northampton. 1 inch = 25
 miles. 1907.—Maitland, A. G., 2.

— Princess Royal Harbour. 1 inch
 = 1 mile.—1907. Maitland, A. G., 3.

MADAGASCAR (North). $\frac{1}{2,000,000}$

1907.—Lemoine, P., 4.

— Maevetanana. $\frac{1}{1,000,000}$ 1906.—

Colcanap, J.

PACIFIC.

Fiji Is. Viti Levu. 2 inches = 11
 miles. Woolnough, W. G.

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projection). 1905.—Arlt, T.

Mara (Sardinia).—Millosevich, F.

Marble, Carrara.—Achiardi, G. d'.
 —, heat-absorption of.—Königsberger,
 J., 2 & 3.

—, Iona.—Elsden, J. V., 3.

—, Tarentaise Liassic.—Kilian, W., 8.

—, Vermont.—Perkins, G. H., 2.

— working.—Anon., 43.

Marbles, St. John's College Chapel, Cam-

bridge.—Bonney, T. G., 2.

Marcasite, Donetz Basin.—Samoilov, Y.;

see also Pyrites.

Marche (Italy).—Capeder, G., 3; Pagani,

U.

Marcia.—Ihering, H. von, 2.

Margaret, Mt. (W. Austral.).—Gibson,

C. G.

Margarites.—Diener, C.

Marginella.—Oppenheim, P., 2.

Marignacite.—Weidman, S., 2.

Marine animals, rock-destruction by.—

Lennier, G.

Marine bed, Charleroi Coalfield.—Cam-

bier, R.

—, Ghlin.—Cornet, J., 3.

Marine beds, Bristol Coalfield.—Bolton,

H.

—, New York Quaternary.—Fairchild,

2.

Markirch (Alsace).—Duerr, L.; Rhein,

A.

Marls, Gaas.—Douvillé, H., 8.

—, Kentucky.—Gardner, J. H.

—, Villejuif.—Hamelin, L., 2.

Marne (France).—Leriche, M., 3; Vi-

guier, R., 2.

Marrakesh, plain of (Morocco).—Brives,

A.

Marsa Matrou (Egypt).—Pachundaki,

D. E.

- Marseille (France).—Boistel, A.; Domage, H.; Fournier, E., 3; Repelin, J.
 Marsupial feet.—Dollo, L.
Martesia.—Vodász, E.; Wilckens, O., 2; Ihering, H. von, 2.
 Martigné-Ferchaud (Britanny).—Stutzer, O., 3.
 Martinique (W. I.).—Heilprin, A.; Lacroix, A., 2 & 3.
 Martinsberg (Hesse).—Stoltz, K.
 Marwood Beds.—Whidborne, G. F., 2.
 Maryborough (Queensl.).—Dunstan, B., 2.
 Maryland (U.S.A.).—Barrows, H. K.
 Marysville (Mont.).—Barrell, J.
 Mascarenhas deeps (Indian Ocean).—Thoulet, J.
 Mascall Beds, Oregon.—Sinclair, W. J.; Stearns, R. E. C.; Gidley, J. W.
 Massachusetts (U.S.A.).—Clapp, F. G.; Hobbs, W. H., 8; Palache, C.; Shimer, H. W., 2.
 Massawa (Erythræa).—Roccati, A.
Mastodon.—Athanasiu, S.; Fox, W. S., 2; Schlosser, M.
Mastodonsaurus.—Schmidt, M.
 Matanuska (Alaska).—Martin, G. C.
 Mathinna (Tasmania).—Twelvetreets, W. H., 2.
 Matlock (Derby).—Arnold-Bemrose, H. H.
 Matopo Mts. (Rhodesia).—Mennell, F. P.
 Matuvanu (Savaii I.).—Sapper, K.
 Maulenne fault, Namur.—Dorlodot, H. de, 2.
 MAURER, F., *Obit.*—See Lepsius, R., 2.
 Mauritius (Indian Ocean).—Claxton, T. F.; Thoulet, J.
Mawsonia.—Mawson, J.
 May (Normandy).—Antoine, M.; Heurteau, C. E.
 Mayenne (France).—Dollfus, G. F., 6; Ehler, D. P.
 Mayo (Ireland).—Kilroe, J. R., 2.
Mazonia.—Woodward, H., 5.
 Meanwood Valley (Yorks).—Holgate, B., 3.
Mecynoptera.—Handhirsch, A.
 Mediterranean, ancient shore-lines. — Cayeux, L., 6; Depéret, C.
 — formation, Hungary.—Gaál, S.
 — titaniferous rocks.—Crook, T., 2; Washington, H. S.
 MEDLICOTT, H. B., *Obit.*—See Blanford, W. T.
Medlicottia.—Chernov, A.
 MEDRADO, A., *Obit.*—See Almeida, C. P. d'.
 Medveditza R. (Russia).—Pavlov, A. V.
Meekella.—Stuckenberg, A.
Meekopora.—Færste, A. F.
 Meerschaaum.—Fogy, D.; Serbin, A.
Megaceros.—Scharff, R. F., 2.
Megalanteris.—Clarke, J. M., 3; Scupin, H.
Megalichthys.—Goddard, M.
Megalophodon.—Roth, S., 3.
Megambonia.—Clarke, J. M., 3.
 Meiringen (Berne).—Arbenz, P.
 Melaconite, Donetz Basin.—Samoïlov, Y.
Melanatria.—Troll, O. von.
Melania.—Cossmann, M., 3; Icke, H.; Ihering, H. von, 2.
Melanopsis.—Cossmann, M., 2.
 Melaphyre, Hallstadt.—Gerhart, Hilda.
 Melbourne (Victoria).—Pritchard, G. B.; Thiele, E. O., 2.
 Melbourne Series, Victoria.—Chapman, F., 7.
Melongena.—Hørnes, R.
 Melton Mowbray (Leicester). — See GREAT BRITAIN, Geol. Surv., 2.
Membranipora.—Canu, F.
 Mendere R. (Asia Minor).—Grund, A.
 Mendip Hills (Somerset).—Reynolds, S. H., 1 & 2; Sibly, T. F.
Mene.—Cramer, R.
Meniscodon.—Stehlin, H. G.
Meniscospora.—Canu, F.
 Mentone (France).—Flamand, G. B. M.; Rutot, A., 3; Van Ertborn, O., 10.
 Menyháza (Hungary).—Krenner, J.; Loczka, J.
Meretrix.—Woods, H.
Merista.—Scupin, H.
Meristella.—Clarke, J. M., 3; Reed, F. R. C.
Meristina.—Reed, F. R. C.
 Merseburg (Germany).—Wuest, F., 1, 8, & 9.
 Mersey R.—Nares, Sir G. S.
Merriamella.—Jordan, D. S.
Merycoidodon, mounted skeleton of.—Gilmore, C. W., 2.
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Mesocelia.—Perner, J.
Mesodon.—Hennig, E., 2.
Mesograptus.—Elles, G. L., 2.
Mesostenus.—Brues, C. T.
 Mesozoic flowering plants.—Scott, D. H., 2.
 — land and sea, East Indies.—Martin, K.
 —, Sardinia.—Deninger, K.
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Metaclepsydropsis.—Bertrand, P., 3.
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 Metalliferous deposits, origin of.—Kemp, J. F., 2; Stelzner, A. W.
 — veins.—See Veins.
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 — rock-kneading.—Steinmann, G.
 — rocks, Bastogne.—Stainier, X., 3.
 —, Galway & Mayo.—Kilroe, J. R., 2.
 —, Scotland, Hardcastle, C. D.
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 —, sandstone.—Merrill, G. P., 4.
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 Meteorites, Alabama.—Merrill, G. P., 2

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 —, Cañon Diablo.—Merrill, G. P., 6.
 —, Colombia.—Ward, H. A.
 —, graphitic iron in.—Tassin, W.
 —, Indian.—Fermor, L. L., 3 & 4.
 —, Kansas.—Howard, K. S.
 —, Laborel.—Berwerth, F., 3.
 —, North Carolina.—Merrill, G. P., 3 & 5.
 —, Pavia.—Meli, R., 2.
 —, Schädlegg.—Redlich, A.
 —, Western Australia.—Simpson, E. S.
Metopaster.—Spencer, W. K.
Metriorhynchus.—Abel, O., 2; Arthaber, G. von, 1-3; Auer, E., 1 & 2; Leeds, E. T.
Metula.—Oppenheim, P., 2.
 Meurthe-et-Moselle (France).—Nicklès, R., 2; Zeiller, R., 3.
 Meuse Valley.—Briquet, A., 2; Fourmarier, P., 4; Muncke, E. de; Pohlig, H.; Rutot, A., 2.
 Mexico (C. Am.).—Anon., 39; Bigourdan, G.; Brinsmade, R. B., 2; Cadell, H. M., 2; Cash, W., 2; Cayeux, L.; Emmons, S. F.; Escobar, R.; Halet, F., 2; Hill, R. T.; Hobson, B., 1 & 2; Hovey, E. O., 1 & 2; Inkey, B. von; McGee, W. J.; Merrill, F. J. H., 2; Navarro, D. V.; Ordóñez, E., 1 & 3; Pavlov, A. P.; Philippi, E., 3; Solózano, M. M.; Villarello, J. D., 1-4; Villaseñor, F. F.; Williams, R. H.
 —. See also Earthquakes, &c.
 —, Gulf of (C. Am.).—Van de Wiele, C.
 Meylan (Isère).—Gonnard, F.
 Meylegem (Flanders).—Cornet, J., 2; Halet, F., 3.
 Mezzodi, Col (Carnic Alps).—Gortani, M., 2.
Miadesmia.—Benson, Mary.
 Mica, Carrara marble.—Achiardi, G. d'.
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 —, traps, Cornwall.—Hill, J. B., 2.
 —, twinning of.—Johnsen, A., 2 & 3.
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Michelinia.—Cumings, E. R., 2.
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 Middlefield (Mass.).—Palache, C.
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 Midland coalfields, hidden.—Gibson, W.; Lapworth, C.
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 Mineralogical microscope.—Lincio, F.
 Mineralogy, American (N.), 1901-05.—Weeks, F. B.
 —, textbook of.—Hintze, C.
 —. See also INTERNAT. CAT. SCI. LIT.; Crystallography, &c.
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 — waters, Caucasus.—Ogilvi, A. N.
 —, Florence.—Canestrelli, G.
 —, fluorine in.—Carles, P.
 —, gases in.—Strutt, R. J., 2.
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 —, origin of.—Gautier, A., 2.
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 —, evolution of.—Ricciardi, L., 2.
 —, Færøe Is.—Currie, J.
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 —, hardness of.—Kip, H. Z.
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 —, lithium-bearing.—McCoy, H. N.
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 —, microscopic examination of opaque.—Campbell, W.
 —, Moravian contact.—Kretschmer, F.

- Minerals, names of.—Spencer, L. J., 3.
 —, New York.—Whitlock, H. P., 1-4 & 6.
 —, Norway.—Brøgger, W. C., 3.
 —, Ormuz I.—Cornu F., 9.
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 —, polarized.—Hoyle, T. E.
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 —, radium-bearing.—M'Coy, H. N.
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 —, Cheshire & Cornwall.—Cuttriss, S. W., 2.
 —, coal.—Boulton, W. S.
 —, history of Austrian.—Muellner, A.
 —, limits to.—Freise, F., 3.
 —, New Jersey.—Kuemmel, H. B., 2.
 —, New York.—Newland, D. H.
 —, Ontario.—Mackellar, P.
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 Minnesota (U.S.A.).—Pammel, L. H.
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 —, Algeria.—Savornin, J.; Zeise, O.
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 Miocene, Dakota (S.).—Matthew, W. D., 4.
 —, Denmark.—Ravn, J. P. J.
 —, Eggenburg.—Anon., 45.
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 —, Galicia.—Fiedberg, W.; Friedborg, W.
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 —, Loire Basin.—Dollfus, G. F., 6 & 7.
 —, Novochoerkask.—Bogachev, V.
 —, Oregon.—Wortman, J. L.
 —, San Marino Republic.—Nelli, B., 2; Stefani, C. de.
 —, Sardinia.—Capeder, G., 2 & 4.
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 —, State of (U.S.A.).—Crider, A. F., 1 & 2; Hobbs, W. H.
 —, Valley (U.S.A.).—Berkey, C. P.; Stone, C. H.; Upham, W.; Weller, S., 2.
 Mississippian, New Mexico.—Gordon, C. H.
 Missouri (U.S.A.).—Broadhead, G. C.; Buckley, E. R.; Clerc, F. L.; Her- rick, R. L.; Shepard, E. M.; Weller, S.
 Mitoclema.—Bassler, R. S.
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 Modiolarca.—Ihering, H. von, 2; Whitfield, R. P., 2.
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 —, Stockach fossiliferous.—Stizenberger, J.

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 E. de.
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 Howchin, W.
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 —, Nile.—Ball, J.
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 A.
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 Museum, Borromeo mineralogical, Milan.
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 —, British Natural History.—Woodward, A. S., 8.
 —, Bruce Castle, Tottenham.—Reader, T. W.
 —, Buenos Aires National.—Ameghino, F., 4.
 —, Caen Natural History.—Bigot, A.
 —collections, promotion of interest in.—Conwentz, H., 5.
 —, Cremona City.—Stefano, G. de, 3.
 —, Harvard College.—Eastman, C. R., 2.
 —, Lausanne Natural History.—Jacquard, F., 2.
 —, New York State.—Clarke, J. M.; Merrill, F. J. H.; *see also* NEW YORK.
 —of Practical Geology, London.—*See* GREAT BRITAIN, Geol. Surv., 1 & 2.
 —, types.—Allen, H. A.
 —, Paris Natural History.—Meunier, S.
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 —, Torquay Natural History Society.
 —Jukes-Browne, A. J., 3.
 —, United States National, Washington.—Gilmore, C. W., 2; Merrill, G. P.
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 —, Wiesbaden Natural History.—Schöendorf, F., 2 & 3.
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 'Nagelfluh,' Switzerland.—Frueh, J., 4; Heim, A., 2.
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- Nepheline-rocks, Baden.—Wilckens, O., 4.
- , British Columbia.—Barlow, A. E.
- , chemistry of.—Morozewicz, J., 2.
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- , Lake Constance.—Kalkowsky, E.
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- , Vizagapatam.—Walker, T. L.
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- Neritopsidæ, Silurian.—Perner, J.
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- Ness Basin (Scotland).—Murray, Sir J., 2.
- Neste River (France).—Bertrand, L.
- Neuchâtel (Switzerland).—Schardt, H., 1 & 2.
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- , Sierra (Spain).—Sánchez Lozano, R., 2.
- Nevada-Chemung formations, New York.—Williams, H. S.
- Nevado de Toluca (Mex.).—Hobson, B.
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- New Brunswick (Canada).—Bailey, L. W.; Ells, R. W.; Ganong, W. F.; Matthew, G. F., 1 & 2.
- Newbury (Berk.).—White, H. J. O.
- New Caledonia (Pacific).—Glasser, E.; Romel, A. de.
- New England (U.S.A.).—Emmons, S. F., 4; Hollick, A.; *see also* Connecticut, Maine, &c.
- , Plateau (N.S.W.).—Andrews, E. C., 2.
- New Guinea (Pacific).—Liversidge, A.
- New Hampshire (U.S.A.).—Barrows, H. K.; Pirsson, L. V.
- Newhaven (Sussex).—Elsden, J. V.; Thoulet, J., 4.
- 'New' Island, British N.W. Borneo.—Schmidt, C., 2.
- New Jersey (U.S.A.).—Kraus, E. H.; Kuemmel, H. B., 1-3; Lewis, J. V., 2-5; McCourt, W. E., 2; Whitlock, H. P., 5.
- New Mexico (U.S.A.).—Emmons, S. F., 3 & 4; Fisher, C. A., 2; Gordon, C. H., 1 & 2; Johnson, D. W.; Keyes, C. R., 1, 2, 4, & 5; Lee, W. T., 3 & 4; Robinson, H. H.
- Newquay (Cornwall).—Reid, C.
- New Rand (Orange River Colony).—Sawyer, A. R.
- New Red Series, England.—Dwerryhouse, A. R., 2; *see also* Trias.
- New Siberia Is. (Arctic).—Nathorst, A. G., 4.
- New South Wales.—Andrews, E. C., 1 & 2; Benson, W. N.; Card, G. W.; David, T. W. E.; Deane, H.; Dun, W. S.; Etheridge, R., *fl.*; Halligan, G. H.; Hlawatsch, C.; Jensen, H. I., 2; Kitson, A. E., 3; Mawson, D., 3; Pittman, E. F.; Taylor, T. G., 1 & 2; Woodman, J. E.
- , river-robbing in.—Woolnough, W. G., 2.
- NEWTON, SIR ISAAC.—*See* Biddlecombe, A., 1 & 2.
- New York (U.S.A.).—Berkey, C. P., 1 & 2; Carney, F., 2 & 4; Clarke, J. M., 1-6; Cushing, H. P., 1 & 2; Eastman, C. R., 3; Emmons, S. F., 4; Fairchild, H. L., 1-4; Grabau, A. W., 3; Hartnagel, C. A., 1 & 2; Hobbs, W. H., 8; Hollick, A.; Hudson, G. H., 1 & 2; Luther, D. D., 1 & 2; McCourt, W. E.; Merrill, F. J. H., 1-4; Newland, D. H., 1 & 2; Ogilvie, J. H.; Parsons, A. L., 1 & 2; Prosser, C. S.; Rafter, G. W.; Ruedemann, R., 2; Shimer, H. W.; Veatch, A. C.; White, D.; Whitlock, H. P., 1-4 & 6; Williams, H. S.; Woodworth, J. B., 1-3.
- , City (U.S.A.).—Wilson, J. H.
- , State Museum, Albany.—Merrill, F. J. H.
- , Reservation, Niagara.—*See* Niagara.
- New Zealand.—Andrews, E. C.; Bell, J. M., 1-3; Crook, T., 7; Giglioli, H. H.; Harrison, L. H.; Hilgendorf, F. W.; Hill, H.; Kidston, R., 3; Longridge, C. C.; Marshall, P., 1 & 2; Park, J., 1-4; Thomson, J. A.; *see also* NEW ZEALAND, Dep. Mines, 1-3.
- Niagara Falls (N. Am.).—*See* Gilbert, G. K., 2; Rice, W. N.; Spencer, J. W., 1-3; *see also* NIAGARA.
- Nias I. (D.E.I.).—Icke, H.
- Nibe (Denmark).—Jessen, A.
- Nicholsonella*.—Bassler, R. S.
- Nickel, Baden.—Weinschenk, E.
- , Colorado, Maine, & Oregon.—Emmons, S. F., 4.
- , Ontario.—Campbell, W., 2; Coleman, A. P., 2 & 4.

- Nickel, Switzerland.—Schmidt, C., 5.
 Nidderdale (Yorks).—Woodward, H., 6.
 Nigeria (W. Africa).—Crook, T.; Parkinson, J., 1-3.
 Nijni Buranchinskoe (Ufa Gov.).—Kandukine, T.
 — Tagilsk (Urals).—Yakovlev, N., 2.
 Nile Valley (Egypt).—Ball, J.; Stromer, E., 1-3.
 Niobate, Norway.—Brøgger, W. C., 3.
 Niobium.—Giles, W. B.; Nicolardot, P., 2; Warren, C. H.
Nipadites Herberti, fruit of.—Combes, P., *fil.*, 3.
 Nitrites, Chile.—Court, G., 3.
 Nive Valley (Pyrenees).—Fournier, E.
 Nizza Valley (Pavia).—Meli, R., 2.
Noaditherium.—Ameghino, F., 4.
 Nodules, calcareous.—Chapman, F., 4; Weiss, F. E.; *see also* Coal-balls, Concretions, &c.
 —, diamonds in.—Corstorphine, G. S.
 —, silica-manganese-iron, Rome.—Angelis d'Ossat, G. de, 2.
 Nome (Alaska).—Dall, W. H.
 Nomenclature, Australian Silurian Ophiurids.—Bather, F. A., 3; Chapman, F., 5.
 Nona (Dalmatia).—Schubert, A., 4.
 Norcia (Umbria).—Vinassa de Regny, P.
 Nord (France).—Breton, L.
 Nordmarkite, Christiania. — Brøgger, W. C., 2.
 Norfolk.—Harmer, F. W., 2; Howorth, Sir H. H.; Slater, G.
 Norite, Norway.—Kolderup, C. F., 1 & 3.
Norites.—Reis, O. M.
 Normandy (France). — Antoine, M.; Cossmann, M., 4; Babeau, L., 1 & 2; Bigot, A., 2; Brognard, L.; Heurteau, C. E.; Lemoine, P.; Lennier, G.; Morellet, L.
 Norrbotten (Sweden).—Hamberg, A.
 North Carolina (U.S.A.).—*See* Carolina, North.
 North Sea, submarine geology of the.—Munthe, H.
 Northampton (W. Austral.).—Maitland, A. G., 2.
 Northamptonshire.—Abel, O., 2; Andrews, C. W., 4.
 Northern Territory (S. Austral.).—*See* South Australia, 2.
 Northumberland.—Butler, G. G.; Kirsopp, J., *fil.*; Woolacott, D., 2.
 Northwich (Cheshire).—De Rance, C. E.
 Norway.—Brøgger, W. C., 1-7; Cuttriss, S. W.; Dal, A.; Fearnside, W. G.; Forsyth, D., 3; Kendall, P. F., 7; Kolderup, C. F., 1-15; Kreutz, S.; Merciai, G.; Monckton, H. W.; Öyen, P. A., 1-3; Rekstad, J., 1-4; Reusch, H., 1-4; Sederholm, J. J.; Tanner, V., 3; Thomassen, T. C., 1-4; Vogt, J. H. L., 3; *see also* Man, Raised beaches, &c.
 Noseana (Lombardy).—Artini, E. E.
Notamynus & Notorhinus.—Roth, S., 3.
Nothocyon.—Merriam, J. C.
Nothosaurus.—Broili, F.
Notothyris.—Gortani, M., 2.
 Nottinghamshire.—Horwood, A. R.
 Nova Scotia (Canada).—Fulton, T. T.; McIntosh, K.; Poole, H. S., 3-5; Wolfe, L. A. de; Woodman, J. E., 2; *see also* NOVA SCOTIA, Dep. Mines.
 Novaia Zemlia (Arctic).—Pavlov, A. P.
 Novocherkask (Prov. Don Cossacks).—Bogachev, V.
 Nowy Targ (Galicia).—Fiedberg, W.
Nucleospira.—Reed, F. R. C.; Scupin, H.; Weller, S.
Nucula.—Bøhm, G., 5; Bolton, H.; Ihering, H. von, 2; Ravn, J. P. J., 4; Weller, S.; Wilckens, O., 2.
Nuculana.—Clarke, J. M., 3; Etheridge, R., *fil.*, 2; Weller, S.
Nuculites.—Shiner, H. W.
 Nuleri (W. Australia).—Simpson, E. S.
Nummulites.—Boussac, J., 2-4.
 —, distribution of.—Douvillè, H., 1 & 2.
 —, growth of.—Boussac, J., 3.
 —, Tertiary.—Boussac, J., 4; Lister, J. J., 2; Pariseh, C.
 Nummulitic rocks, Aniène Valley.—Prever, P. L.
 —, Biarritz & Venetia.—Boussac, J., 5.
 —, India.—Vredenburg, E. W., 3.
 —, Java.—Martin, K., 2.
 Nurra, Mt. (Sardinia).—Deninger, K.; Lovisato, D.; Viola, C.
 Nusplingen (Württemberg).—Heineke, E.; Pleninger, F.
Nyassa.—Drevermann, F.; Perkins, G. H., 5.
Nymphæa.—Fliche, P.
Nymphaster.—Spencer, W. K.
 Oahu (Hawaian Is.).—Hitchcock, C. H., 6.
 Oak Hill (Cal.).—Carey, E. P.
 Oakey Creek (N.S.W.).—David, T. W. E.
 Oaks View (Queensl.).—Bull, L. C., 2.
 Oases, civilization &.—Pumpelly, R.
 Oaxaca (Mexico).—Williams, R. H.
 Oban Hills (Nigeria).—Parkinson, J.
Obeliscus.—Schepman, M. M.
 Oberkutzenhausen & Oberstritten (Alsace).—Van Werveke, L., 2.
Ocadia.—Stefano, G. de, 2.
 Oceanic circulation, ice-melting &.—Pettersson, O.
 — deposits. — Kolderup, C. F., 15; Thoulet, J., 3; *see also* Deep-sea deposits, &c.
 — swallow-holes, vulcanism &.—Martel, E. A., 2.
 Oceans, chemical evolution of.—Lane, A. C.

- Oceans, climates &.—Gregory, J. W., 1 & 2.
 —, continents &.—Arlt, T., 2 & 3.
 —, origin of.—Hobbs, W. H., 7;
 Howarth, J. H.; Love, A. E. H., 1 & 2;
 Meunier, S., 8; Oldham, R. D., 2.
 Ochil Hills (Scotland).—Davison, C., 2.
 Ochos (Moravia).—Gorjanović-Kramberger, D., 2.
 Ochre, Georgia.—Watson, T. L., 2.
Ocinebra.—Icke, H.
Ocotea.—Hollick, A.
 Ocquier (Liège).—Renier, A., 2.
 Odenwald (Hesse).—Chelius, C.; Freudenberger, W.; Klemm, G.; Steuer, A., 2.
Odontaspis.—Leriche, M.; Priem, F., 2 & 4.
 Odontoceti, Belgian Tertiary.—Abel, O.
Odostomia.—Ihering, H. von, 2; Tokunaga, S.
Æhlertia.—Perner, J.
Ænoscopus.—Heineke, E.
 Ohio (U.S.A.).—Carney, F., 3; Griswold, W. T.; Orton, E., *fil.*; Stauffer, C. R.; Stevenson, J. J.
 — (—), geological bibliography of.—Derby, A. G.
 Oil-shales, France & Scotland.—Helsing, G.
 —, Lothians.—Cadell, H. M., 3.
 Oisans, (Savoy).—Camous, L. V.
 Oise (France).—Mary, A.
 Oka R. (Russia).—Bogoslovski, N.
 Oklahoma (U.S.A.).—Beede, J. W.; Rogers, A. F.
 Olary (S. Austral.).—Mawson, D., 2; Rennie, E. H.
Olcostephanus.—Danford, C. G.
 Old Red Sandstone, Ludlow.—Reade, T. M.
 — — — —, Scotland.—Forsyth, D., 4.
 — — — —, conglomerate, Forest of Dean.—Cullis, C. G.
 Oldenburg (Germany).—Martin, J., 2.
 Olekma R. (Siberia).—Gerasimov, A. P.
Olenellus-shales, Sweden.—Moberg, J. C., 3.
 Oléron I. (France).—Degrange-Touzin, E.
 Oligocene, Aquitaine.—Repelin, J., 2.
 —, Denmark.—Ravn, J. P. J.
 —, Hampshire.—Boussac, J., 8.
 —, Mainz Basin.—Delkeskamp, R.
 —, Majorca.—Vidal, L. M.
 —, Pomerania.—Schneider, O., 2.
 —, Spain.—Mallada, L., 2.
 —, Venetia.—Canestrelli, G., 2.
 —. See also Tertiary.
Olivancellaria.—Ihering, H. von, 2.
 Olivine-crystals.—Wiegel, H.
 —, serpentine with.—Palache, C.
 Olot (Catalonia).—Washington, H. S., 2.
 Olpe (Westphalia).—Denckmann, A., 3.
 Oltenia (Rumania).—Murgoci, G. M.
 Olympic Peninsula (Wash.).—Arnold, R.
Omalia.—Handlirsch, A.
Ombonia.—Caneva, G.
Omphalina.—Cockerell, T. D. A., 3.
Omphaloptycha.—Diener, C., 2.
Onchus.—Fritsch, A., 2.
Oncoceras.—Ruedemann, R., 2.
Oncorhynchus.—Jordan, D. S.
 Onega, Lake (Russia).—Ramsay, W.
 Oneida conglomerate, New York.—Hartnagel, C. A.
Onocela.—Hollick, A.
Onohippidium.—Roth, S., 2.
 Ontario (Canada).—Adams, F. D.; Anon., 37; Bell, R.; Brock, R. W., 2; Campbell, W., 2; Coleman, A. P., 1, 2, & 4; Coste, E.; Mackellar, P.; Lewis, J. V.; Van Hise, C. R.
 Ontario, Lake (N. Am.).—Fairchild, H. L.
Ooceras.—Ruedemann, R., 2.
 Oolite, ammonites of the.—Buckman, S. S.
 —, Bath.—Anon., 44.
 —, Brora.—Stopes, Marie C.
 —, formation of.—Cayeux, L.
 —, Gloucestershire.—Richardson, L., 3.
 —, Greece.—Renz, C.
 —, mollusca of the.—Allen, H. A.
 —, siliceous.—Mordziol, C.
 —, Somerset & Wiltshire.—Richardson, L.
 Ooze-deposits.—Clarke, F. W.; Ramann, E.
 Opal, New South Wales.—Pittman, E. F.; see also NEW SOUTH WALES, Dep. Mines.
 Opaque minerals.—Campbell, W.
Opechinus.—Pachundaki, E.
Operculina.—Silvestri, A.
Operculum.—Icke, H.
Ophiocten.—Whitfield, R. P., 2.
Ophiotilanos & Ophiura.—Spencer, W. K.
 Ophiuroidea, Cretaceous.—Spencer, W. K.
 —, Silurian.—Bather, F. A., 1 & 3; Chapman, F., 5 & 7.
 —, Triassic.—Schmidt, M., 3.
 —. See also Echinoidea.
Ophthalmosaurus.—Andrews, C. W., 4.
Opissaster.—Lambert, J.
Oppelia.—Bohm, G., 5.
Opsiceros.—Scott, W. B.
 Oran (Algeria).—Flamand, G. B. M., 3.
 Orange Co. (N.Y.).—Shimer, H. W.
 Orange River Colony (S. Afr.).—Johnson, J. P., 2; Sawyer, A. R.
Orbicella.—Koby, F.; Verrill, A. E.
Orbiculoidea.—Clarke, J. M., 3.
Orbignyella.—Bassler, R. S.
Orbitoides.—Bogdanovich, K. I.; Parris, C.
Orbitolina-beds, Dauphiné.—Jacob, C.
 Ordovician, Ayr.—Reed, F. R. C., 4 & 5.

- Ordovician, China.—Weller, S., 3; Willis, B., 8.
 —, Haverfordwest.—Reed, F. R. C., 6 & 9.
 —, Lake District.—Marr, J. E.
 —, Mississippi Valley.—Berkey, C. P.
 —, Norway.—Fearnside, W. G.
 —, Shan States.—Reed, F. R. C.
 —, Sweden.—Fearnside, W. G.; Moberg, J. C.; Törnquist, S. L.
 —, Tyrone.—Fearnside, W. G., 3.
 —, Victoria.—Hall, T. S.
 —, Wyoming.—Darton, N. H.
 Ore-deposition.—Stokes, H. N.; *see also* Metal.
 Ore-deposits, Alsace.—Duerr, L.
 —, Asiatic Turkey.—Freise, F., 2.
 —, Cornwall.—Hill, J. B., 1 & 2; Reid, C., 1 & 2.
 —, Dauphiné & Savoy.—Chabrand, E.
 —, distribution in depth.—Gregory, J. W., 10.
 —, Donetz Basin.—Samoïlov, Y.
 —, Finland.—Anon., 46.
 —, Gratz Basin.—Vacek, M.
 —, Harz.—Beushausen, L.
 —, indicators.—Krusch, P.
 —, & industrial supremacy.—Stewart, J. L.
 —, Italy.—Lotti, B.
 —, mining of.—Freise, F., 3.
 —, Ontario.—Van Hise, C. R.
 —, origin of.—Freise, F., 3; Gregory, J. W., 5; Hunt, A. R., 3; Krusch, P., 1 & 2; Park, J., 2-4; Pearce, R., 2.
 —, Peru.—Denegri, M. A.
 —, Portugal & Spain.—Ahlburg, J.
 —, Rammelsberg.—Bode, A.
 —, Rhodesia.—Mennell, F. P., 2.
 —, secondary enrichment of.—Read, T. T.
 —, Sicily.—Lotti, B., 2.
 —, South Australia.—Duffield, T.
 —, Tasmania.—*See also* TASMANIA, Dep. Mines.
 —, text-book on.—Beck, R.; Stelzner, A. W.
 —, Western Asia in ancient times.—Freise, F., 2.
 —, Westphalia.—Lotz, H., 2.
 —, *See also* Copper, Gold, &c.
 Oregon (U.S.A.).—Diller, J. S.; Emmons, S. F., 4; Gidley, J. W.; Kemp, J. F.; Merriam, J. C., 6; Sinclair, W. J.; Stearns, R. E. C.; Wortman, J. Z.
 Orenburg (Russia).—Hatch, F. H., 3.
 Organisms, rocks formed or destroyed by.—Lomas, J., 3.
Oriocrassatella.—Etheridge, R., *fil.*, 2.
 Orlau (Silesia).—Michael, R., 3.
 Orleans Co. (Vt.).—Marsters, W. F.
 Ormuz I. (Persian Gulf).—Cornu, F., 9.
Ornatulus-clay, Franconian Jura.—Hermann, R.
 Orne (France).—Heurteau, C. E.
Orometopus.—Lake, P.
 Oronsay (Scotland).—Wilkinson, S. B.
 Orroli (Sardinia).—Lovisato, D.
Orthacanthus.—Fritsch, A., 2.
Orthis.—Reed, F. R. C.; Siemiradzki, J. von; Wiman, C.
Orthisina.—Wiman, C.
Orthocentrus.—Brues, C. T.
Orthoceras.—Bolton, H.; Clarke, J. M., 3; Poëta, P.; Reed, F. R. C.; Ruedemann, R., 2.
 Orthoclase in dolomite, Campolongo.—Linck, G.
 —, twinning of.—Neugebauer, F.
 —, *See also* Felspar.
Orthograptus.—Elles, G. L., 2.
Orthonema.—Beede, J. W.
Orthonychia.—Spitz, A.; Weller, S.
Orthonota.—Reed, F. R. C.
Orthophragmina.—Vredenburg, E. W., 3.
Orthostrophia.—Clarke, J. M., 3.
Orthotetes.—Etheridge, R., *fil.*, 2; Reed, F. R. C.
 Ortler (Tyrol).—Frech, F.; Hammer, W., 1 & 2.
Ortonia.—Cumings, E. R., 2.
Orygoceras.—Ruedemann, R., 2.
Osmeroides.—Woodward, A. S., 7.
 Osmundaceæ, Jurassic.—Kidston, R., 3.
Osmundites.—Seward, A. C., 3.
 Ostend (Belgium).—Félix, J.; Van Ertborn, O., 4.
 Ostersudom (Finland).—Borgström, L. H.
 Ostracoda, Cretaceous.—Harbort, E.
 —, Devonian.—Walther, K.
 —, Quaternary.—Hopkinson, J.
 —, Silurian.—Siemiradzki, J. von.
Ostrea.—Ihering, H. von, 2; Nordmann, V.; Tokunaga, S.; Wilckens, O., 2; Wollema, A.
 Ostrich, origin of birds & skeleton of the.—Broom, R.
 Oswiecim (Galicia).—Quaas, A., 2.
 Osztroki-Vepor Mts. (Hungary).—Gaál, S.
 Otago (N.Z.).—Marshall, P., 1 & 2; Park, J.
 Otavite.—Kœchlin, R.
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 Otö I. (Baltic).—Holmquist, P. J., 3.
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 Otolites, Tertiary.—Priem, F., 2; Schubert, R. J., 1 & 3.
Otolithus.—Priem, F., 2.
 Otta (Lisbon).—Engerrand, G.
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 Ottrelitic schists, Piedmont.—Rosati, A.
 Ouennougha-Medjana (Algeria).—Savornin, J., 2.

- Ouro Preto (Brazil).—Costa Sena, J. C. da; Oliveira, S. de.
 Ourthe Valley (Belgian Luxemburg).—Munck, E. de, 2.
 Ouse R. (Bucks, &c.).—Thompson, B.
 OUSTALET, E., list of works of.—Oustalet, E.
 Ovens (Victoria).—Reid, D.
 Overlaps, types of.—Grabau, A. W.; Kœnen, A. von, 2.
 Overthrusts, Spain.—Nicklés, R.
 —, Tyrol.—Gordon, M. M. O., 1.
Ovibos.—Lambe, L. M., 2.
Ovis.—Toula, F.
 Owens Valley (Cal.).—Lee, W. T., 2.
 Owl Creek Mts. (Wy.).—Darton, N. H., 5.
Ozæcron.—Stehlin, H. G.
 Oxford Clay, Baden.—Bœhm, G.; Steinmann, G., 6.
 —, Dutch East Indies.—Bœhm, G., 5.
 —, Fletton.—Leeds, E. T.
 —, Lake.—Harmer, F. W., 3.
 Oxfordian, Isère.—Gonnard, F.
 —, Moravia.—Neumann, J.
 —, Rumania.—Cardas, A., 1 & 2.
 Oxfordshire.—Harmer, F. W.; Richardson, L., 3, 7.
Oxynticerus.—Pompeckj, J. F.
Oxyrhina.—Priem, F., 4.
 Oyster Bay (N.Y.).—Merrill, F. J. H., 4.
 Ozieri (Sardinia).—Lovisato, D., 2.
Pachycardia & *Pachycardia* - beds, Tyrol.—Broili, F., 3; Waagen, L., 4.
Pachylasma.—Alessandri, G.
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Pachytesta.—Sterzel, J. T.
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 Pacific coast, America.—McAdie, A. G.
 — Ocean.—Hobbs, W. H., 7.
 Padru (Sardinia).—Lovisato, D., 2.
Palæacodon.—Broom, R., 5; Nopcsa, F.
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 Palæobotany, progress of.—Zeiller, R., 5.
 Palæocene, Dalmatia.—Kerner, F. von, 2.
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 —. See also Tertiary, &c.
 Palæodictyoptera, Carboniferous. — Handlirsch, A.
 Palæogeography of the Earth's surface. — Lapparent, A. de, 2.
Palæolima.—Bolton, H.
 Palæolithic man, Schaffhausen. — Nüesch, J.; see also Man, &c.
Palæomastax.—Handlirsch, A.
Palæomeryx.—Zdarsky, A.
Palæoneilo.—Clarke, J. M., 3.
 Palæontology, American (N.), 1904-05. — Weeks, F. B.
 Palæontology, British Museum, Nat. Hist.—See BRITISH MUSEUM, Nat. Hist.
 —, Canada, 1905.—Ami, H. M.
 —, evolution &. — Hutton, F. W.; Osborn, H. F., 3.
 —, lecture on.—Jaccard, F.
 —, photography &.—Bœse, E., 1 & 2.
 —, zoology &.—Uhlig, V.
 —. See also INTERNAT. CAT. SCI. LIT.
 Palæoniscidæ, Carboniferous.—Traquair, R. H.
Palæopalara.—Handlirsch, A.
Palæorhinus.—Lees, J. H.
Palæoscurria.—Spitz, A.
Palæosolen.—Clarke, J. M., 3.
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 Palæozoic, Burgundy, &c.—Lévy, Alb. M.
 —, Carnic Alps.—Gortani, M., 2.
 —, New York.—See New York State Mus., 1-3.
 — glaciation, S. Africa.—Schwarz, E. H. L., 3.
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Palæoziphus.—Abel, O.
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 Palencia (Spain).—Adán de Yarza, R.; Sanchez Lozano, R., 3.
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 Palladium.—Hussak, E., 2.
Palmatopteris.—Sterzel, J. T.
 Palmierite, Vesuvius.—Lacroix, A., 5.
Palorthopteron.—Handlirsch, A.
Paludestrina.—Courty, G., 3.
 Paluzza district (Venetia).—Gortani, M.
Palyssia.—Yokoyama, M.
Panopæa.—Ihering, H. von, 2; Stuckenberg, A.; Wilckens, O., 2.
Pantoclis.—Brues, C. T.
 Papandajan Volcano (Java). — Van Heek, J. G. B.
 Paradox Lake (N.Y.). — Ogilvie, I. H.
Parahoplites.—Collet, L. W.; Douvillé, R., 10; Jacob, C., 2.
Parallelodon.—Bolton, H.
 Parametres, rock-magmas expressed in.—Lévy, Aug. M.
Paramys.—Loomis, F. B.
 Paraná R. (São Paulo).—See SÃO PAULO, Comm. Geogr., 2.
 Paranapanema R. (São Paulo).—Sampaio, T.; see also SÃO PAULO, Comm. Geogr., 2.
 Parapara (N.Z.).—Bell, J. M.; Crook, T., 7.
Parapronorites.—Chernov, A.
Parapholas.—Etheridge, R., fil., 3.
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- Paratacamite. — Kœchlin, R.; Smith, G. F., 4.
- Parathisbites*, *Paratibetites* & *Paratropites*. — Diener, C.
- Paraucellina*. — Pavlov, A. P.
- Paravivianite. — Kœchlin, R.
- Pardailhan (Hérault). — Vasseur, G.
- Pardria (Sardinia). — Millosevich, F., 3.
- Parichnos. — *See* Leaf-scars.
- Paris (France). — Meunier, S.
- Basin (France). — Boussac, J., 6; Combes, P., *fil.*, 1-4; Cossmann, M., 3; Dollfus, G. F., 2, 4, & 5; Fritel, P. H.; Hamelin, L., 1 & 2; Leriche, M., 2; Munier-Chalmas, E.; Priem, F., 2 & 3; Ramond, G., 1 & 2.
- Parisite. — Cesáro, G.; Chernik, G. P.
- Park City District (Utah). — Boutwell, J. M.
- Parvisipho*. — Cossmann, M., 2.
- Parys Mountain (Anglesey). — Williams, G. J.
- Pas-de-Calais (France). — Bréon, R.; Breton, L.; *see also* Dover, Straits of.
- Passy (Paris). — Combes, P., *fil.*, 1 & 4.
- Patagonia (S. Am.). — Ameghino, F., 1 & 3; Gaudry, A.; Ihering, H. von; Lehmann-Nitsche, R., 1 & 2; Paulcke, W.; Roth, S., 2 & 3; Wilckens, O., 1 & 2.
- Pateley Bridge (Yorks). — Vaughan, A.
- Patella*. — Broili, F., 3.
- Patronite, Peru. — Hillebrand, W. F.
- Pau-Ting-Fu (Chi-Li). — Willis, B., 6.
- Pávágad Hill (Bombay Pres.). — Fermor, L. L.
- Pavia (Italy). — Meli, R., 2.
- Peat, classification of. — Potonié, H., 2.
- , Cross Fell. — Lewis, F. J., 3.
- , Indiana. — Douglass, B. W.
- , Ireland. — Ryan, H.
- , Isle of Man. — Lewis, F. J.
- , Falkland Is. — Crook, T., 4.
- , France. — Cayeux, L., 4; Lemièrre, L.
- , Hanover. — Schucht, F., 1 & 2.
- , Liverpool. — Lomas, J., 5.
- , New York. — Parsons, A. L.
- , origin of. — Ascham, O.; Hoffmann, J. F.
- , Pomerania. — Deecke, W.
- , Prussia (E.). — Klautzsch, A.
- , — (W.). — Conwentz, H.
- , Scotland. — Geikie, J.; Lewis, F. J., 1-3.
- , Sweden. — Hasselman, H.
- , Sutton-on-Sea. — Sheppard, T.
- Peaty deposit, Tantobie. — Smythe, J. A.
- Pebbles, Danish drift. — Milthers, V.
- , faceted. — Göbel, F.; Lisbôa, M. A. R., 1 & 2; Vorweg, O., 1 & 2; *see also* Windworn stones.
- , Pas-de-Calais. — Bréon, R.
- , Permian conglomerate. — Tornquist, A.
- , Vienna Flysch. — Berwerth, F.
- Pecopteris*. — Peola, P.; Sterzel, J. T.; Zeiller, R.
- Peés district (Hungary). — Hofmann, K.
- Pecten*. — Arnold, R., 3; Dall, W. H.; Deydier, M.; Ihering, H. von, 2; Nelli, B., 2; Ravn, J. P. J., 4; Rekstad, J., 3; Wollemann, A.; Woods, H.; Schmidt, M., 3; Tokunaga, S.; Ugolini, R., 3; Vadasz, E.
- *Macphersoni* in Piedmont Pliocene. — Ugolini, R., 2.
- *medius*, Phlegrean Fields &. — Bellini, R., 2.
- Pectinidae, Tertiary. — Ugolini, R., 3.
- Pectolite, Hesse. — Reuning, E.
- Pedioceras*. — Douvillé, R., 11.
- Pedogna Valley (Tuscany). — Zaccagna, D.
- Pegmatite, Colorado. — Finlay, G. I.
- Pelunia*. — Roth, S., 3.
- Peking (China). — Bruce, C. D.
- Pelamys*. — Leriche, M.
- Pelée, Mt. (Martinique). — Heilprin, A.; Lacroix, A., 2 & 3.
- PELLATI, N., *Obit.* — *See* Anon., 16; Baldacci, L.
- Pellatispira*. — Boussac, J., 2.
- Pelm-Belingen (Rh.-Pruss.). — Hennig, E.
- Pelmatozoa, Silurian. — Hudson, G. H., 2.
- Peloneustes*. — Jaccard, F., 2.
- Peloponnesus (Greece). — Ktenas, K. A., 2.
- Peltoceras*. — Böhm, G., 5; Neumann, J.
- Pembrey (Caermarthen). — Strahan, A., 3.
- Pembrokeshire. — Cantrill, T. C.; Reed, F. R. C., 6 & 9.
- PENFIELD, S. L., *Obit.* — *See* Miers, H. A.
- Pendleside Series, Belgium. — Cornet, J.
- Pendulum, horizontal. — Omori, F., 19.
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- Pennsylvania (U.S.A.). — Butts, C.; Clapp, F. G., 2; Griswold, W. T.; Kemp, J. F., 3; Stevenson, J. J.; Stone, R. W.; Woolsey, L. H.
- Pennsylvanian Formation, New Mexico. — Gordon, C. H., 2.
- reptilia. — Raymond, P. E., 2.
- Pentacrinus*. — Whitfield, R. P., 2.
- Pentamerus*. — Dunn, W. S.; Scupin, H.; Reed, F. R. C.
- Pentremites*. — Cumings, E. R., 2.
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- Percidarum*. — Leriche, M.
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- dyke in Pennsylvanian Coal Measures. — Kemp, J. F., 3.
- Peripleurocyclus*. — Diener, C., 2.
- Periploca*. — Hollick, A.

- Perispheniscus*.—Ameghino, F.
Perisphinctes.—Behm, G., 5; Neumann, J.; Sheppard, T.
 Perm (Russia).—Chernov, A.; Krasnopolski, A., 1 & 2.
 Permian, America (N.).—Keyes, C. R., 3; *see also* Kansas, &c.
 —, Baden.—Sterzel, J. T.
 —, Bohemia.—Petrasccheck, W., 3.
 —, Carinthia.—Dreger, J.
 —, Corsica.—Deprat, J., 3.
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 —, glaciation.—Dreger, J.; Manson, M.
 —, Indo-China.—Douvillé, H., 9.
 —, Kansas.—Reagan, A. B.; Sellards, E. H.
 —, Lorraine.—Leppla, A., 3; Tornquist, A.
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 —, Oklahoma.—Beede, J. W.
 —, Rhön Mts.—Buecking, H.
 —, Staffordshire, &c.—Gibson, W., 2.
 —, Worcestershire.—Wills, L. J.
 Permo-Carboniferous, Australasia. —
 David, T. W. E.; Taylor, T. G.; Etheridge, R., *fl.*, 2.
 —, Cape Colony.—Lomas, J., 4.
 —, Carnic Alps.—Gortani, M., 2.
 —, China.—Willis, B.
 —, Perm.—Chernov, A.
 —, S. America.—White, D.
 Permo-Triassic, Venetia.—Caneva, G.
 Pernambuco (Brazil).—Woodward, A. S.
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 Petrography.—Sommerfeldt, E.
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 —, Alsace.—Van Werkeke, L., 1 & 2.
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 —, New York.—Newland, D. H.
 —, New Zealand.—Hill, H.
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 —, Ontario.—Coste, E.
 —, origin of.—Pantanelli, D.; Stahl, A. F., 1-3.
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 —, Prussia.—Hornung, F.
 —, Rumania.—Murgoci, G. M.; Poni, P.; Stewart, P. C. A.
 —, Texas.—Dumble, E. T.; Fenneman, N. M.
 —, Ufa Gov.—Kandukine, T.
 —, United States.—Emmons, S. F., 3 & 4; *see also* UNITED STATES, Min. Resources; Kansas, &c.
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 —, W. Australia.—Maitland, A. G., 3.
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 —, use of electromagnet in.—Crook, T., 3.
 —. *See also* INTERNAT. CAT. SCI. LIT.
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 Pettycur (Fife).—Kidston, R., 2.
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Phacops.—Reeds, F. R. C.
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 Phenacite.—Palache, C.
 Phillip, Port (Victoria).—Hall, T. S., 3.
Philippites.—Diener, C., 2.
Phillipsia.—Gortani, M., 2.
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 Phonolite, natrolite in.—Cornu, F., 11.
 —, New South Wales.—Card, G. W.
 —, Rhön Mts.—Buecking, H., 2.
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- Phosphate of alumina.—*See* Wavellite.
 Phosphatic concretions.—Cayeux, L., 3 & 5; *see also* Concretions.
 — deposits, Algeria & Tunis.—Tietze, O., 3.
 — —, Dandaraga.—Campbell, W. D., 2.
 — —, Ekersund.—Kolderup, C. F., 3.
 — —, France.—Tietze, O., 2.
 — —, Kertch District.—Popov, S. P., 2.
 — —, United States.—Emmons, S. F., 4.
Photinula.—Ihering, H. von, 2.
 Photography, palæontology &.—Bøese, E., 1 & 2.
 —, petrographical.—Lincio, G.
Phylloceras.—Bøhm, G., 5; Bogdanovich, K. I.; Crick, G. C., 5; Renz, C., 3.
Phylloceratidæ, Jurassic.—Prinz, G.
Phylloporina.—Reed, F. R. C.
Phyllothea.—Seward, A. C., 3.
Physa.—Vredenburg, E. W., 4 & 5.
Physeterula.—Abel, O.
 Pianezza (Piedmont).—Martin, D., 2; Roccati, A., 2.
Picca.—Macbride, T. H.
 Picean coast of the Adriatic.—Capeder, G., 3.
 Picentino R. (Campania).—Galdieri, A.
 Piedmont (Italy).—Bellardi, L.; Bellini, R.; Cerulli-Irelli, G.; Clerici, E., 2 & 3; Colomba, L., 1-3; Franchi, S., 2; Gortani, M., 4; Haug, E., 2; Martin, D., 2 & 3; Millosevich, F., 4 & 5; Parisch, C.; Prever, P. L., 2; Roccati, A., 2; Rosati, A.; Sacco, F., 1-3, 5, 8, & 9; Spezia, G.; Stella, A.; Termier, P., 5; Toborff, Z. von, 2; Ugolini, R., 2; Zambonini, F., 1 & 4.
 PIETTE, L. E. S., *Obit.*—*See* Fischer, H.
 Pilares, Los (Mex.).—Emmons, S. F.
Piloceras.—Ruedemann, R., 1 & 2.
 Pilolite.—Friedel, G.
 Pilton Beds.—Whidborne, G. F., 2.
Pimpia.—Brues, C. T.
Pinacoceras.—Diener, C.; Martelli, A., 2.
Pinetodia.—Sellards, E. H.
Pinna.—Schmidt, M., 3; Whitfield, R. P., 2.
Pinnatopora.—Johnsen, A.
Pinnocaris.—Reed, F. R. C., 4.
Pinococeras.—Diener, C., 2.
 Pipes, S. African volcanic.—Du Toit, A. L., 4; Rastall, R. H., 3.
Pirifusus.—Woods, H.
 Pisa (Tuscany).—Vinassa de Regny, P.
 Pisanite.—Schaller, W. T.
 Pisano, Mte. (Tuscany).—Merciai, G., 3; Vinassa de Regny, P., 2.
 Pisolitic iron-ore, N. Wales.—Fearn-sides, W. G., 2.
Pitar.—Ihering, H. von, 2.
 Pitchblende.—*See* Uranite.
Pithanodelphis.—Abel, O.
 Pittsburg (Pa.).—Raymond, P. E., 2.
 Placard cave (Charente).—Mortillet, A. de.
 Placer-gravels, Alaska.—Dall, W. H.
 — mining, Alaska.—Brooks, A. H., 2; Moffat, F. H.; Prindle, L. M., 2.
 —, British Columbia. — Carmichael, A.
 Plains, Cape Colony.—Schwarz, E. H. L., 5.
 —, winding of rivers in. — Lodge, Sir O.; Lomas, J., 8; Oldham, R. D., 6.
 Plaisancian, Piedmont.—Dollfus, G. F.
Planera.—Hollick, A.
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 Plants, basalt with remains of.—Cadell, H. M.; Solózano, M. M.
 —, Carboniferous.—Arber, E. A. N., 1-3; Benson, Mary; Bertrand, P., 1-3; Cash, W.; Coward, K. H.; Davies, E. B.; Gotham, W., 2; Henslow, G.; Hickling, G., 2; Holgate, B., 2; Kidston, R., 1 & 2; Macbride, T. H.; Peola, P.; Potonié, H.; Pritchard, S. H.; Renier, A., 1, 2, 4, 6, & 7; Rogers, I.; Scott, D. H., 1 & 3; Seward, A. C.; Sterzel, J. T.
 — —, leaf-scars of.—Weiss, F. E., 2; Zaleski, M. D., 1 & 2; Zeiller, R., 3 & 5.
 —, Cretaceous. — Hollick, A.; Nathorst, A. G., 1 & 2; Novak, J.; Potonié, H.; Scott, D. H., 2; Steinmann, G.; Yokoyama, M.
 —, collodion casts of fossils.—Bather, F. A., 2; Nathorst, A. G., 3.
 —, Devonian.—Karpinski, A. P., 2; Matthew, G. F.; Walther, K.
 —, geographical distribution of Palæozoic.—Gotham, W., 2.
 —, Jurassic.—Gotham, W.; Jeffrey, E. C.; Kidston, R., 3; Nathorst, A. G., 4; Palibin, I. V., 2; Potonié, H.; Salfeld, H.; Scott, D. H., 2; Seward, A. C., 2 & 5; Stopes, Marie C.; Yokoyama, M.
 —, Permian.—Sterzel, J. T.
 —, Permo-Carboniferous. — Seward, A. C., 3-4 & 6; Zeiller, R.
 —, Permo-Triassic.—Chapman, F.
 —, Quaternary. — Berry, E. W.; Gavelin, A.; Lewis, F. J., 1-3; Macbride, T. H.; Wangerin, W.
 —, refigured types of fossil.—Potonié, H.
 —, Rhætic.—Salfeld, H.; Seward, A. C., 2.
 —, rocks formed or destroyed by.—Lomas, J., 3.
 —, soils &. — Pammel, L. H.; Vahl, M.

- Plants, Tertiary.—Combes, P., *fil.*, 3;
Deane, H.; Douxami, H.; Engelhardt, H.; Fliche, P.; Fritel, P. H.; Jeffrey, E. C., 2; Lantenois, H.; Palibin, I. V., 1, 3, 4; Perkins, G. H., 4, 5, 9, & 10; Shattuck, G. B.; Viguiier, R., 1 & 2; Zeiller, R., 3.
—, Triassic.—Hayden, H. H., 2;
Lomas, A., 9; Nathorst, A. G., 4;
Scott, D. H., 2; Yokoyama, M.; Zeiller, R., 2.
Plateaux, Torquay.—Jukes-Browne, A. J.
Plateosaurus.—Huene, F. von.
Platinum, Brazil.—Hussak, E., 2.
Plattsburg (N.Y.).—Cushing, H. P., 2.
Platyceeras.—Clarke, J. M., 3; Spitz, A.; Weller, S.
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Plectambonites.—Reed, F. R. C.
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Pleshey (Essex).—Reader, F. W.
Plesiofelis.—Roth, S., 3.
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Pleurodictyum.—Clarke, J. M., 3.
Pleurograptus.—Moberg, J. C.
Pleuromya.—Whitfield, R. P., 2.
Pleuromytilus.—Etheridge, R., *fil.*, 2;
Reis, O. M.
Pleurophorus.—Beede, J. W.; Diener, C., 2; Waagen, L., 4.
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Pleurotoma.—Arnold, R., 3; Icke, H.; Ihering, H. von., 2; Tokunaga, S.
Pleurotomaria.—Beede, J. W.; Bolton, H.; Diener, C., 2; Sieberer, K.; Spitz, A.; Stuckenber, A.; Wolle-mann, A.
Pleurotomariadae, Silurian.—Perner, J.
Plicatulopecten.—Steinmann, G., 9.
Pliocene, Alaska.—Dall, W. H.
—, Belgium.—Simoens, G., 10.
—, Mainz.—Mordziol, C.
—, Piedmont.—Ugolini, R., 2.
—, quartz-boulders, Rhenish Prussia.
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—, Rome.—Meli, R.
—, Spain.—Schlosser, M.
—, Tuscany.—Martelli, A.; Portis, A., 2.
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Pliolampas.—Nelli, B., 2.
Pliomera.—Reed, F. R. C.
Pliosaurus.—Hermann, R.
Ploconema.—Perner, J.
Plougashnou (Britanny).—Cayeux, L., 4.
Plumosite.—Romel, A. de.
Plymouth (Devon).—Ussher, W. A. E., 2.
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Pæcilozonites.—Verrill, A. E.
Pogonodon.—Merriam, J. C.
Poland.—Gotham, W.; Oppokov, E. V.; Revutzki, E.
Pollicipes.—Alessandri, G.
Polymorphastrea.—Koby, F.
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Polytropis.—Spitz, A.
Pomerania (Prussia).—Deecke, W.; Gagel, C.; Schneider, O., 2.
Pomeroy (Tyrone).—Fearnside, W. G., 2 & 3.
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Ponte d'Elsa (Tuscany).—Stefano, C. de, 3.
Pontevedra (Spain).—Sánchez Lozano, R.
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 —. See also Archaean.
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Protocrinus.—Reed, F. R. C.
Protocycloceras.—Ruedemann, R., 2.
Protohippus.—Matthew, W. D., 4.
Protophocena.—Abel, O.
Protrachyceras.—Diener, C., 1 & 2.
 Provence (France).—Boistel, A.; Domage, H.; Mertel, E. A.; Fournier, E., 3; Repelin, J.
 Provençhères-sur-Meuse (Haute-Marne).—Thiéry, P.
Prunoides.—Perkins, G. H., 5.
 Prussia.—Linstow, O. von, 1 & 2; Mascke, E., 2; Gagel, C., 2 & 3; Wuest, E., 5; see also Brandenburg, &c.
 —, boring records.—Keilhack, K.
 — (E.).—Kaunhowen, F.; Klautzsch, A.
 — (W.).—Conwentz, H., 1, 3, & 7.
 Przemyśl (Galicia).—Łoziński, W., von, 3; Wójcik, K.
 Przesiszow (Galicia).—Quaas, A., 2.
Psammecinus.—Nelli, B., 2; Pachundaki, E.
Psammobia.—Ihering, H. von, 2.
Psaronius.—Macbride, T. H.
 Pseudomorphs.—Pearce, R.; Reinhold, F.
Pseudamaura & *Pseudavicula*. — Etheridge, R., *fil.*, 3.
Pseudobrochidium.—Grupe, O.
Pseudocorbula.—Grupe, O.; Zeller, F.
Pseudocyclus.—Nathorst, A. G., 2.
Pseudodiadema.—Woods, H.
Pseudomonotis.—Stuckenberg, A.
 Pseudomorphs.—Zimmermann, E.
Pseudospheniscus.—Ameghino, F.
Pseudotectus.—Perner, J.
Pterinea.—Clarke, J. M., 3.
Pterodactylus.—Pleninger, F.
Pteronitella & *Pterinopecten*.—Clarke, J. M., 3.
Pteronites.—Etheridge, R., *fil.*; Reed, F. R. C.; Stuckenberg, A.
 Pteropoda, Devonian.—Clarke, J. M., 3.
 Pterosauria, flight of.—Nopcsa, F., 2.
 Ptilolite, Iceland.—Lindström, G.
Ptychites.—Diener, C., 2; Martelli, A., 2; Reis, O. M.
Ptychocaulus.—Perner, J.
Ptychomphalina.—Etheridge, R., *fil.*, 2; Perner, J.
Ptychomphalus.—Broili, F., 3; Stuckenberg, A.; Weller, S.
Ptychomya.—Woods, H., 2.

- Ptychosphenodon*.—Seeley, H. G., 2.
Ptychospira & *Ptychozone*.—Perner, J.
Ptyctodonta, Devonian.—Dollo, L., 12.
Ptyctodus.—Weller, S.
Pugnax.—Cumings, E. R., 2.
Pugnellus.—Wilckens, O., 2; Woods, H.
Pulaskite, Christiania.—Brøgger, W. C., 2.
Puntadura I. (Dalmatia).—Schubert, R. J., 6.
Purpura.—Bárdurson, G. G.
Purpurite.—Schaller, W. T.
Puy de Dôme (Auvergne).—Glangeaud, P., 2; Gonnard, F., 4; *see also* Auvergne.
Pays, the (Auvergne).—Glangeaud, P., 1, 3, & 4.
Puzosia.—Crick, G. C., 5.
Pycinaster.—Spencer, W. K.
Pycnodont fishes, Lebanon Cretaceous.—Hennig, E., 2.
Pycnodonta.—Cossmann, M., 2.
Pycnomphalus.—Reed, F. R. C.
Pycnostroma.—Guerich, G., 1 & 4.
Pycnotrochus.—Perner, J.
Pygocephalus.—Woodward, H., 4.
Pyramidula.—Stearns, R. E. C.
Pyrargyrite.—Kasprovitz, G.
Pyrenees (French).—Bertrand, L., 1-3; Carez, L., 1-3; Chevalier, M.; Douvillé, H., 4; Fournier, E., 1 & 2; Termier, P., 4; Zeiller R., 4.
Pyrgoma.—Alessandri, G.
Pyrgula.—Troll, O. von.
Pyripora.—Canu, F.
Pyrites, Colorado & New Jersey.—Kraus, E. H.
 —, Denmark.—Nørregaard, E. M.
 —, Hungary.—Köchlin, R., 2.
 —, Kazanesd.—Lackner, A.
 —, occurrence of.—Stelzner, A.
 —, oxidation of.—Winchell, A. N.
 —, Sardinia.—Serra, A.
 —, treatise on.—Truchot, P.
Pyritized ammonites.—Mascke, E.
Pyrochlore.—Weidman, S., 2.
Pyropsis.—Wilckens, O., 2; Woods, H.
Pyroxene-rocks, Russian.—Backlund, H., 1-3; *see also* Augite.
Pyrrhotite, Apuan Alps.—Manasse, E.
Quarnero (Dalmatia).—Stefani, C. de., 5.
Quarries, Great Britain.—*See* GREAT BRITAIN, Home Office.
 —, New York.—Newland, D. H.
 —, rock-falls in.—Hankar-Urban, A.
Quartz, boulders, Mosel & Rhine district.—Kaiser, E.
 —, crystals.—Cesàro, G.; Goldschmidt, V.; Quensel, P. D.
 —, Donetz Basin.—Samoïlov, Y.
 —, Lower Austria.—Reinhold, F., 2.
 —, melting-points of.—Sokolov, V. I.
 —, Meylan geodes.—Gonnard, F.
 —, ophitic.—Deprat, J., 1-3 & 5.
 —, Savoy.—Camous, L. V.
Quartz (veins), Saxony.—Baumgärtel, B.
 —, Ueberatana.—Mawson, D.
 —, Victoria.—Dunn, E. J., 1-3; Mahony, D. J.
 —, Ville-Hervé.—Bézier, T.
 —, porphyry, Bohemia.—Hibsch, J. E.
Quartzite, Bolivia.—MacAlister, D. A., 3.
 —, Hospital-Hill Slates.—Young, R. B., 2.
 —, structure of.—Cayeux, L., 2.
 —, Tuscany.—Merciai, G., 2.
Quaternary, America (S.).—Steinmann, G.
 —, Andorre Valley.—Chevalier, M.
 —, Arkansas.—Veatch, A. C.
 —, Belgium.—Briquet, A., 2; Mourlon, M., 7; Munck, E. de; Simoens, G., 10; Van Ertborn O., 3 & 7; Velge, G.
 —, Cantal.—Mayet, L.
 —, Carolina (N.).—Johnson, B. L.
 —, Celebes.—Schepman, M. M.
 —, Cornwall.—Whitley, D. G.
 —, Croatia.—Gorjanović-Kramberger, K.
 —, Denmark.—Jessen, A., 1 & 2; Johansen, A. C.; Milthers, V.; Wesenberg-Lund, C.
 —, Eure.—Leroy, J.
 —, Finland.—Tanner, V., 1-3.
 —, French Mediterranean coast.—Depéret, C.
 —, Galicia.—Loziński, W., 1-3.
 —, Germany (N.).—Anon., 28; Conwentz, H.; Kaunhowen, F., 2; Martin, J., 2; Neumann, E.; Philippi, E.; Picard, E.; Schuchf, F., 1 & 2; Steinmann, G., 10; Steuer, A.; Tietze, O.; Wahnschaffe, F.; Werth, E.; Wolff, W.; Wuest, E., 4 & 8.
 —, Hungary.—Horowitzky, H.; Phleps, O.
 —, Isle of Man.—Reade, T. M., 2.
 —, Japan.—Tokunaga, S.
 —, Limburg (Dutch).—Velge, G.
 —, Lombardy.—Cacciamali, G. B.
 —, Louisiana.—Veatch, A. C.
 —, Madagascar.—Lemoine, P., 5.
 —, Mississippi Valley.—Upham, W.
 —, New York.—Fairchild, H. L., 1-3; Wilson, J. H.
 —, Nias I.—Icke, H.
 —, Rumania.—Sévastos, R., 2.
 —, Saône Valley.—Bérout, J. M.
 —, Scotland.—Geikie, J.
 —, Sicily.—Salinas, E., 1 & 2; Scalia, S.
 —, Sweden.—Johansen, A. C.
 —, Sylt I.—Petersen, J.
 —, use of the term.—Evans, J. W., 8.
 —, Vermont.—Hitchcock, C. H., 1-3.
 —, Westphalia.—Meyer, W.

- Quaternary submergence, British Isles.
—Hull, E.
—, *See also* Glacial deposits, &c.
'Quatre-Vents' Quarry, Dieppe.—Morellet, L.
Quebec (Canada).—Clarke, J. M., 2;
Dresser, J. A.; Low, A. P., 2.
Queen Charlotte Is. (B.C.).—Pavlov, A. P.; *see also* BRITISH COLUMBIA.
Queensland.—Ball, L. C., 1-3; Cameron, W. E., 1 & 2; Dunstan, B., 1-4;
Twelvetrees, W. H., 5.
Queenstown (Cape Colony).—Du Toit, A. L.
Quenstedtia.—Whitfield, R. P., 2.
Quercus, Caucasus.—Palibin, I. V.
Quercy (France).—Leenhardt, —.
Quicksands, Brabant.—Hankar-Urban, A., 2; Van Ertborn, O., 2.
Quicksilver, Brazil.—Oliveira, S. de.
—, Donetz Basin.—Samoilov, Y.
—, German Rhineland.—Freise, F.
—, Mexico.—Villarello, J. D.
—, Texas.—Hillebrand, W. F., 3.
- Radio-active ore-body, Olary.—Mawson, D., 2.
Radio-activity, earth &. — Strutt, R. J., 4.
—, helium &. — Strutt, R. J.
—, minerals &. — Muegge, O.
—, soils &. — Howell, J. H.
—, thermal waters &. — Dienert, F.
—, Vesuvius &. — Scarpa, O.; Zambonini, F., 2.
—, vulcanism &. — Louderback, G. D.
Radio-cosmic theory.—Biddlecombe, A., 1 & 2.
Radiolarian chert, Hesse.—Steuer, A.
Radiolites.—Toucas, A., 1 & 2.
Radium, earth &. — Blanc, G. A.
—, geology &. — Fisher, O., 2; Joly, J., 2; Sollas, W. J.
—, gravitation &. — Biddlecombe, A., 1 & 2.
—, Simplon rocks with.—Joly, J.
Radium-bearing minerals, copper in.—McCoy, H. N.
—, S. Australia.—Radcliff, S.
Radium Hill (S. Austral.).—Mawson, D., 2; Rennie, E. H.
Radstädter Tauern (Tyrol). — Beeke, F., 8.
Rafinesquina.—Reed, F. R. C.
Raised beach, Cleadon (Durham). — Woolacott, D., 3.
—, Klein Brak River.—Rogers, A. W., 3.
—, Livorno.—Nelli, B.
—, Taltal.—Evans, O. H.
—, beaches, Cornwall.—Hill, J. B., 1 & 2.
—, Finland.—Tanner, V., 3.
—, France (S.).—Depéret, C.
—, Norway.—Brögger, A. W., 1 & 2; Tanner, V., 3; Rekstad, J., 3.
—, Sardinia.—Capeder, G., 2.
—, Scotland.—Geikie, J.
- Rajputana (India).—Holland, T. H., 2.
Ramicalamus.—Matthew, G. F.
Rammelsberg (Saxony).—Bode, A.
Ran (India).—Sivewright, R.
Ranella.—Icke, H.
Rapakivi granite, Christiania.—Brögger, W. C., 2.
Raphispira.—Perner, J.
Raphistoma.—Boulton, H.
Rare earths.—Bodman, G.; Holmberg, O.; Mawson, D., 2; Nicolardot, P., 1-4; Radcliff, S. *See also* Radium, &c.
Rasata (Colombia).—Ward, H. A.
Raspite, Broken Hill (N.S.W.).—Hlawatsch, C.
Raub Series, Malay States.—*See* MALAY STATES, Geol. Rep.
RAULIN, F. V., *Obit.*—*See* Douvillé, H., 6.
Raxella-Chert.—Newton, E. T.
Rayleigh Hills (Essex).—Salter, A. E., 2.
Reading (Berks).—Monckton, H. W., 2.
Recoaro (Lombardy).—Artini, E. E.
Red Beds, Laramie.—Darton, N. H., 2.
—, New Mexico.—Lee, W. T., 4.
—, Oklahoma.—Beeke, J. W.
'Red Clay,' deep sea.—Clarke, F. W.
Red Hill (New Hants).—Pirsson, L. V.
Red Mountain (Colo.).—Herrick, R. L., 2.
Red Sea.—Michel, L.
Red Wall Limestone, Kansas. — Reagan, A. B., 2.
Redoman, Mayenne.—Dollfus, G. F., 6.
Redruth (Cornwall).—Hill, J. B., 2;
MacAlister, D. A., 1 & 2.
Reefs.—*See* Coral, Quartz, &c.
Rehanna Plateau (Morocco).—Brives, A.
Reichenstein (Saxony).—Wieneck, A.
REINACH, A. VON, *Obit.*—*See* Oppenheim, P.
Reinbach Valley (Bohemia). — Cornu, F., 9.
Reinprechtspollä (Vienna).—Toula, F.
Rektek.—Sellards, E. H.
Rembang (Java).—Martin, K., 2.
Rembesdal (Norway).—Öyen, P. A.
Remopleurides.—Reed, F. R. C.
Rencurel District (France).—Jacob, C.
RENEVIER, E., *Obit.*—*See* Geikie, Sir A., 2; Lugeon, M.; Sarasin, C.
Renggeri-clay, Baden. — Böhm, G.; Steinmann, G., 6.
Renison Bell tin-field (Queensl.). — Twelvetrees, W. H., 3.
Rensselaeria.—Clarke, J. M., 3.
Reptilia, Carboniferous. — Raymond, P. E., 2.
—, Cretaceous.—Broili, F., 2; Broom, R., 8; Brown, B.; Cannon, G. L.; Capps, S. R., *fil.*; Fritsch, A.; Hooley, R. W.; Lydekker, R., 2; Mawson, J.; Sternberg, C. H.; Williston, S. W.; Yakovlev, N.

- Reptilia, Jurassic.—Abel, O., 2; Arthaber, G. von, 1-3; Auer, E., 1 & 2; Ammon, L. von; Andrews, C. W., 4; Collot, L.; Dollo, L., 4; Gilmore, C. W., 1 & 3; Hermann, R.; Jaccard, F., 2; Leeds, E. T.; Plieninger, F.; Thiéry, P.
- , limbs of.—Lydekker, R., 2.
- , origin of flight of.—Nopcsa, F., 2.
- , Permian.—Case, E. C.; Seeley, H. G., 2.
- , Permo-Triassic.—Broom, R., 3 & 4, 6-8.
- , stomach-stones of.—Cannon, G. L., 2; Wieland, G. R.
- , Tertiary.—Dollo, L., 3; Hay, O. P.; Loomis, F. B., 2; Portis, A.
- , Triassic.—Broli, F.; Broom, R., 5; Fraas, E., 2; Huene, F. von; Lees, J. H.; Lomas, J., 9; Merriam, J. C., 2; Nopcsa, F.; Woodward, A. S., 1 & 9.
- , See also Dinosauria, &c.
- Ressas, Djebel (Tunis).—Pervinquier, L., 2 & 3.
- Retusa*.—Wilckens, O.
- Retzia*.—Scupin, H.
- Reunion I. (Indian Ocean).—Thoulet, J.
- Rhadinichthys*.—Eastman, C. R., 3.
- Rhætian Alps.—Ampferer, O., 2.
- Rhætic, Gotha.—Amthor, R., 2.
- , Rhön Mts.—Schæfer, H. F.
- , Tuscany.—Vinassa de Regny, P., 2.
- Rhamphorhynchus*.—Plieninger, F.
- Rhaphanoerinus*.—Hudson, G. H.
- Rhénan, Liège.—Goffart, J.
- Rhenish Bavaria.—Hæberle, D.
- Rhenish Prussia.—Delkeskamp, R.; Fuchs, A.; Holzapfel, E.; Kaiser, E.; Leppla, A., 2; Mueller, H.; Pohlig, H., 1 & 2; Rauff, H.; Steinmann, G.; Værling, K.; Westermann, H.
- Rhine District (Germany).—Freise, F.
- , Lower (Germany).—Steinmann, G., 3.
- , Valley (Hesse).—Steuer, A.
- , (Schaffhausen).—Meister, J.
- Rhinidictya*.—Reed, F. R. C.
- Rhinoceros*.—Leroy, J.
- , Samos.—Weber, M.
- , Tertiary.—Barbour, E. H., 3.
- Rhinoceros*-bed, Hundsheim.—Wuest, E., 3.
- , *Mercki* in Austria.—Toula, F., 2.
- Rhinoptera*.—Woodward, A. S., 5.
- Rhipidocrinus*.—Drevermann, F.
- Rhipidomella*.—Clarke, J. M., 3.
- Rhode I. (U.S.A.).—Emerson, B. K.
- Rhodea*.—Sterzel, J. T.
- Rhodesia (S. Afr.).—Crook, T., 5; Davis, W. M., 4; Lamplugh, G. W., 1 & 2; Mennell, F. P., 1-4; Molyneux, A. J. C.
- Rhodocroisite, Aosta Valley.—Millosevich, F., 4.
- Rhodusite.—Iskul, V. I.
- Rhogas*.—Brues, C. T.
- Rhomboeladia*.—Johnsen, A.
- Rhomopora*.—Chapman, F., 8; Cummings, E. R., 2; Johnsen, A.
- Rhombora*.—Etheridge, R., *fil.*, 2.
- Rhombotrypa*.—Bassler, R. S.
- Rhön Mts. (Germany).—Buecking, H., 1 & 2; Fersmann, A., 2; Schæfer, H. F.; Sællner, J.
- Rhône Basin (France).—Leriche, M., 4.
- , glacier (Switzerland).—Busz, K.; Lang, J.
- , Valley (France).—Joleaud, L.
- Rhönite.—Sællner, J.
- Rhynchocephalia, Triassic.—Broom, R., 5.
- Rhynchonella*.—Bœhm, G., 5; Dal Piaz, G.; Gortani, M., 2; Martelli, A., 2; Scupin, H.
- Rhynchosaurus*.—Woodward, A. S.
- Rhynchospira*.—Reed, F. R. C.
- Rhyolite, Bombay Pres.—Fermor, L. L.
- , Grand-Manil.—Simoens, G., 8.
- , Sahara.—Chudeau, R., 3.
- Rhyssa*.—Brues, C. T.
- Riazan Gov. (Russia).—Bogoslovski, N.; Pavlov, A. V.
- Rich Mt. (N. Car.).—Merrill, G. P., 3.
- Richmond (Quebec).—Dresser, J. A.
- RICHTHOFFEN, F. Baron von, *Obit.*—See Geikie, Sir A., 3.
- Rickmansworth (Herts).—Evans, Sir J.
- Riebeckite.—Rogers, A. F.
- Ries district (Swabia).—Ammon, L. von, 2; Schuster, M. E.
- Riesengebirge (Silesia).—Rimann, E.
- Ringicula*.—Ihering, H. von, 2.
- Ringwood (Victoria).—Thiele, E. O., 1 & 3.
- Rio Grande Valley (N. Mex.).—Gordon, C. H., 1 & 2; Keyes, C. R., 5; Lee, W. T., 3 & 4.
- Rio Tinto copper-ore, Huelva.—Wood, R. H.
- Ripple-marks.—Ayrton, Hertha; Hunt, A. R., 1, 2, & 4.
- Rissingtons (Gloucester).—Richardson, L., 3.
- Rissoa*.—Meli, R.
- River-alluvium as fertilizer.—Taramelli, T., 3.
- , channels, Yorkshire.—Kendall, P. F., 10.
- , erosion.—Bruhes, J.; Westgate, L. G.
- , evolution, N. Belgium.—Briquet, A.
- , faunas, coast-depression &.—Branner, J. C.
- , robbing, California.—Holway, R. S.
- , Georgia.—Johnson, D. W., 2 & 3.
- , New South Wales.—Woolnough, W. G., 2.
- , Paris Basin.—Ramond, G.
- , Victoria.—Leach, J. A.; Thiele, E. O., 2.
- , terraces, origin of.—Sévastos, R.
- , valleys.—Davis, W. M., 3.

- Rivers, changes of faunas.—Holway, R. S.; *see also* River-robbing.
 —, Colorado.—Erdmann, H.
 —, earth's rotation &.—Hilgendorf, F. W.
 —, Hertfordshire.—Sutton, A.
 —, New Brunswick.—Ganong, W. F.
 —, Scotland.—Hinxman, L. W.
 —, winding of.—Aitken, J.; Buchanan, J. Y.; Lodge, Sir O.; Lomas, J., 8; Oldham, R. D., 6.
 —, Wisconsin.—Smith, L. S.
 Road-metal, United States.—Lewis, J. V., 4; Emmons, S. F., 3.
Robbergia.—Moberg, J. C.
 Rocca Bianca (Piedmont).—Zambonini, F.
 Rochdale (Lancs.).—Woodward, H., 5.
 Rochester (Kent).—Dibley, G. E., 2.
 — & Rochester shale (New York)—Bassler, R. S.
 Rock (decomposed) absorption. — Dittrich, M.
 — analyses.—*See* Analyses, &c.
 — analysis, method of.—Mauzelius, R.; Morozewicz, J., 1 & 2.
 — elasticity.—Adams, F. D., 2; Kusakabe, S.
 — falls, origin of.—Hankar-Urban, A.
 — folds, weathering causing.—Campbell, M. R., 2.
 — joints & Wisconsin drainage. — Harder, E. C.
 — kneading, metamorphic. — Steinmann, G., 7.
 — magmas.—*See* Magmas.
 — minerals, determination of.—Idings, J. P.
 — nomenclature.—Lisbôa, M. A. R., 3.
 — salt, Lancashire.—Thompson, F. J.
 — sections, microscope.—Hoyle, T. E.; Joachim, H.
 — sliding, glacial.—Jones, F. O.
 — weathering, Falkland Is.—Anderson, J. G., 3.
 Rockhampton (Queensl.).—Ball, L. C., 2.
 Rocks, chemical reactions &.—Greenly, E., 3.
 —, destruction by marine animals.—Lennier, G.
 — formed or destroyed by organisms.—Lomas, J., 3.
 —, heat-absorption of.—Kœnigsberger, J., 2 & 3.
 —, polished surfaces of.—Gœbel, F.
 —, pressure-strain of.—Rinne, F., 2.
 —, quantitative classification of.—Evans, J. W., 4.
 —, sedimentary, origin of.—Agnus, A. N., 2.
 Rocky Mts. (N. Am.).—Raymond, P. E.; Scherzer, W. H.
 Rodborough Hill (Gloucester).—Richardson, L., 6 & 10.
 Rodderberg (Rh.-Pruss.).—Steinmann, G., 10.
 Rodents, Tertiary.—Gidley, J. W., 2; Loomis, F. B.
 Rome (Italy).—Angelis d'Ossat, G. de, 2; Dainelli, G.; Meli, R.; Portis, A., 3, 4, 5 & 6; Tuccimei, G.; Verri, A., 1 & 2.
 Römerite.—Scharizer, R.
 Romney (Ont.).—Coste, E.
 Roncà (Venetia).—Boussac, J., 7.
 Ronco Ry. (Liguria).—Taramelli, E. T.
 Rooiberg (Transvaal).—Humphrey, W. A., 2.
 Ropianka (Galicia).—Noth, J.
 Rosbach, Ober (Hesse).—Bodifée, —.
 Roscoelite, S. Australia.—Mawson, D., 2.
 Rosée, Grotte de (Liège).—Cosyns, G.
 Rossland (B.C.).—Brook, R. W.
 Ross-shire (Scotland).—Flett, J. S.; Peach, B. N.; *see also* GREAT BRITAIN, Geol. Surv., 2.
 Rosswein (Saxony).—Uhlig, J.
 Rostellan submergied cromleac, Co. Cork.—Welch, R.
Rostellaria.—Icke, H.; Ihering, H. von.
Rostellites.—Woods, H.
 Roswell (N. Mex.).—Fisher, C. A., 2.
 Rothau (Bohemia).—Heinich, R.
 Rothgrundspitze (Bavaria).—Schulze, G.
 Rothliegende.—*See* Permian.
 Rouen (Normandy).—Lemoine, P.
 Roussillon (Pyénées-Orientales).—Bertrand, L.
 Rount Co. (Colo.).—Fenneman, N. M., 2; Headen, W. P., 1 & 2.
 Royal Society circular on geology.—Mourlon, M., 2.
 Rubble 'head,' Cornwall.—Whitley, D. G.
Rubioides.—Perkins, G. H., 5.
 Ruby.—Lœhr, A. von; Tanatar, J. J.; *see also* INDIA, Dep. Mines.
 Ruda (Dalmatia).—Kerner, F. von, 2.
 Rudistæ, Cretaceous.—Pellat, E.; Toucas, A., 1 & 2.
 Rudobanya (Hungary).—Kœchlin, R., 2.
 Rügen I. (Prussia).—Philippi, E.
 Ruhr R. (Westphalia).—Renier, A., 5.
 Rumania.—Athanasîu, S.; Cardas, A., 1 & 2; Macovei, G.; Murgoci, G. M.; Poni, P.; Sévastos, R., 2 & 3; Stewart, P. C. A.
 Rural Valley (Pa.).—Butts, C.
 RUSSELL, I. C., *Obit.*—*See* Gilbert, G. K.
 Russia, artesian wells.—Sokolov, N. A.
 —, intermittent lakes.—Yermolov, A. S.
 — (S.).—Laskarev, V.; Sokolov, N. A.
 —. *See also* Borings, Crimea, Cretaceous, Samara Gov., &c.
 Russian R. (Cal.).—Holway, R. S.
 Rustenburg (Transvaal).—Humphrey, W. A., 3.
 Rutherfordite.—Kœchlin, R.
 Rutile, mineralogy of.—Baumhauer, H.
 Ruwenzori (Uganda).—Abruzzi, Duke of; Roccati, A., 3.

- Rye (N.Y.).—Merrill, F. J. H.
 Rzeszowa (Galicia).—Friedborg, W.
- Saale R. (Germany).—Neumann, E.; Picard, E.; Wuest, E., 2.
 Saarbrücken (Lorraine).—Leppla, A., 3.
Sabal.—Fliche, P.
Sackenia.—Cockerell, T. D. A.
 Sacramento R. (Cal.).—Holway, R. S.
 Sado R. (Portugal).—Choffat, P.
Sagatherium.—Osborn, H. F.
 Sahara (N. Africa).—Chudeau, R., 1-3;
 Flamand, G. B. M., 2; Romel, A. de.
 St. Albans (Vt.).—Edson, G. E.
 St. Amour (Jura).—Bourgeat, —.
 St. André (Calvados).—Heurteau, C. E.
 St. Blasien (Baden).—Weinschenk, E., 2.
 St. Cassian Beds, Tyrol.—Gordon, M. M. O.
 St. Croix I. (W.I.).—Quin, J. T.
 St. Denis d'Oléron (Charente-Inférieure).—Peyrot, —.
 St. Étienne (Loire).—Friedel, G., 2.
 St. Gall (Switzerland).—Falkner, C. Sarasin, C., 4.
 St. Gaultier (Indre).—Koby, F.
 St. Germain (Eure).—Leroy, J.
 St. Girons (Ariège).—Carez, L., 2.
 St. Gotthard (Lepontine Alps).—Schmidt, C., 4.
 St. James's Cemetery (Liverpool).—Pritchard, S. H., 2.
 St. Joe River (Idaho).—Emmons, S. F., 3.
 St. John (N.B.).—Matthew, O. F., 2.
 St. John's-College Chapel, Cambridge, marbles &c.—Bonney, T. G., 2.
 St. John's I. (Red Sea).—Michel, L.
 St. Lucia (Zululand).—Seward, A. C., 6.
 St. Margarethe (Schleswig-Holstein).—Clausen, H.
 St. Martin Cave (Oise).—Mary, A.
 St. Nazaire (Lot-et-Garonde).—Repelin, J., 2.
 St. Orsola Spring (Tyrol).—Eichleiter, C. F.
 St. Paul (Carinthia).—Dreger, J.
 St. Peter Sandstone, age of.—Berkey, C. P.
 St. Remy (Calvados).—Heurteau, C. E.
 Saint-Seiue-l'Abbaye (Côte-d'Or).—Collet, L.
 St. Veit (Lr. Austria).—Trauth, F.
 St. Vincent (Cape Verde Is.).—Drygal-ski, E. von.
 Ste. Croix du Mont (Gironde).—Repelin, J., 2.
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 Saldinsk (Perm).—Krasnopolski, A.
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 Saline solutions, ore-deposits in.—Hunt, A. R., 3.
 Salins (Jura).—Bourgeat, —.
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 — crystals.—Cornu, F.
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 —, German E. Africa.—Tornara, —.
 —, Germany (North).—Koenen, A. von.
 —, Kansas.—Haworth, E., 1 & 2.
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 —, Lancashire.—Thompson, F. J.
 —, oceanic.—Van 't Hoff, J. H., 1-3.
 —, rock.—Rinne, F.
 —, Rumania.—Murgoci, G. M.
 —, Shan States.—La Touche, T. D.
 —, Switzerland.—Schmidt, C., 5.
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 —, Stassfurt.—Zimmermann, E.
 Salzburg (Austria).—Fugger, E., 1 & 2;
 Gerhart, Hilda; Haug, E., 4; Till, A.
 Salzkammergut (Austria).—Lambert, J., 2.
 Samara Gov. (Russia).—Stucken-berg, A.
 Samarkand (Turkestan).—Edelstein, J. S.
 Samoa Is. (Pacific).—Jensen, H. I.; Reinecke, F.; Sapper, K.
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 San Barthélemy (Piedmont).—Millose-vich, F., 5.
 San Francisco (Cal.).—Gilbert, G. K., 3;
 Lawson, A. C., 3; Leyst, E.; Omori, F., 3, 4, & 8; Redway, J. W.; Ritter, E. A.; Rudzki, M. P., 2; Upham, W., 2.
 — — Peninsula (Cal.).—Crundall, R., 2.
 San Gavino a Mare (Sardinia).—Cape-der, G.
 San José (Cal.).—Carey, E. P.
 San Juan, Mt. (Colo.).—Howe, E.; Lakes, A.
 San Marino (Italy).—Nelli, B., 2; Sal-mojraghi, C. F.; Stefani, C. de; Tra-bucco, G.
 San Piero in Campo (Elba).—Achiardi, G. d', 2.
 San Sego (San Marino).—Salmojrighi, C. F.
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 — dunes.—See Dunes.
 —, mechanical analysis of.—Steenberg, N.
 — movement, New South Wales coast.
 — Halligan, G. H.
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 —, nomenclature of.—Lisbóa, M. A. R., 3.
 —, Pas-de-Calais.—Bréon, R.
 —, San Sego.—Salmojrighi, C. F.

- Sands, shore, movements of.—Thoulet, J., 2.
 Sandstone, metamorphism of.—Merrill, G. P., 4.
 —, pipes, Anglesey.—Greenly, E.
 —, upper white, Franconian Jura.—Köhne, W.
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 — & sands, nomenclature of.—Lisbôa, M. A. R., 3.
 —, structure of.—Cayeux, L., 2.
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 thal, C. E.
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 2.
 Sanpete Valley (Utah).—Emmons, S.
 F., 3; Richardson, G. B.
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 R.
 — Clara Valley (Cal.).—Branner, J.
 C.; Crandall, R., 1 & 2.
 — Cruz beds, Patagonia.—Lydekker,
 R., 4.
 — Maria (Cal.).—Arnold, R., 4.
 — Rosa (Colombia).—Ward, H. A.
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 F. M.
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 Zeiller, R.
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 Sapojok (Riazan Gov.).—Bogoslovski,
 N.
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 Walker, T. L., 2.
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 — (Texas).—Dumble, E. T.
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Sassafras.—Hollick, A.
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 2 & 3.
 Satara District (Bombay Pres.).—Fer-
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 Savaii I. (Samoa Is.).—Jensen, H. I.;
 Reinecke, F.; Sapper, K.
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 A.; Uhlig, J.; Wieneck, A.
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 —. *See also* Calcite, Erzgebirge, &c.
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 —, State preservation of natural.—
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 K.; Meister, J.; Nüesch, J.
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 S. W.
 'Schistes lustrés,' Piedmont.—Haug, É.,
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 —, Brittany.—Pussenot, —.
 —, Cape Colony.—Schwarz, E. H. L.
 —, chemistry of alterations in. —
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 —, China.—Willis, P.
 —, Kolar goldfield.—Smeeth, W. F.
 —, Liassic dun-coloured, Spezia.—Fu-
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 —, Liguria.—Rosati, A., 3.
 —, nomenclature of.—Lisbôa, M. A.
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 —, Norway.—Reusch, H., 3.
 —, N.W. Highlands of Scotland.—
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- Schizambon*.—Hudson, G. H.
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 Scotland, ancient volcanoes.—Geikie, J.,
 2.
 —, Geological Survey.—See GREAT
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 —, gneisses.—Flett, J. S.
 —, journey to.—Faujas de Saint Fond,
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 —, metamorphic rocks.—Hardcastle,
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 —, N.W. Highlands.—Peach, B. N.
 —, oil-shale.—Hellsing, G.
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 'SEALARK,' H.M.S.—Gardiner, J. S.,
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 — investigations.—Milne, J., 3.
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 —, geology &.—Lagrange, E.
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- Senonopithecus*.—Seguenza, L.
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 —, Galicia.—Novak, J.; Smolenski, G.
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Sequoia.—Hollick, A.; Palibin, I. V., 1, 2, & 4.
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 — fault, Liège.—Renier, A., 3.
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 Sergipe (Brazil).—Woodward, A. S., 5.
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 —, Languedoc.—Bergeron, J.
 —, olivine &.—Palache, C.
 —, origin of.—Fogy, D.
 —, Tyrol.—Young, A. P.
 —, Vermont.—Masters, W. F.
Serpula.—Etheridge, R., *fl.*, 3; Nelli, B., 2; Stuckenberg, A.
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 Shark, fossil.—Hay, O. P., 3.
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Shumardia.—Lake, P.
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 Siderite, Cornwall.—Henglein, M.
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 Siegen (Westphalia).—Denckmann, A., 3; Lotz, H., 2; Schmidt, W. E.; Stelzner, A. W.
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 —, utilizing.—Buck, Sir E. C.
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 —, Baltic Provinces.—Schmidt, F.
 —, Bohemia.—Perner, J.; Seemann, F.; Želízko, J. V.
 —, Bolivia.—Courtly, G., 3.
 —, Galway & Mayo.—Kilroe, J. R., 2.
 —, Gratz Basin.—Vacek, M.
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 —, Haverfordwest.—Cantrill, T. C.; Reed, F. R. C., 6 & 9.
 —, Kentucky.—Første, A. F.
 —, Ludlow.—Reade, T. M.
 —, Mendip Hills.—Reynolds, S. H., 1 & 2.
 —, New South Wales.—Dun, W. S.
 —, New York.—Grabau, A. W., 3;
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 —, Normandy.—Heurteau, C. E.
 —, pebbles, Prussian gravel with.—Linstow, O. von.
 —, problematic fossils.—Fritsch, A., 3.
 —, Russia.—Siemiradzki, J. von.
 —, Scotland.—Forsyth, D., 2.
 —, Shan States.—Reed, F. R. C.
 —, Silesia.—Guerich, G., 3.
 —, Sweden.—Wiman, C.
 —, Thuringia.—Walther, K.
 —, Timan Peninsula.—Lebedev, N.
 —, Turkestan.—Edelstein, J. S.; Stepanov, P.
 —, Tyrone.—Fearnside, W. G., 3.
 —, Vermont.—Seely, H. M., 3 & 4.
 —, Victoria.—Chapman, F., 3, 7, & 8;
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 —, Yorkshire.—Hughes, T. McK.
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 —, Arizona.—Brinsmade, R. B., 3.
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 —, Chile.—Courtly, G., 3.
 —, Colorado.—Emmons, S. F., 3 & 5.
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 —, deposition of.—Stokes, H. N.
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 —, occurrence of.—Stelzner, A. W.
 —, Ontario.—Campbell, W., 2.
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 —, Utah.—Dern, J.; Emmons, S. F., 3.
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 —, rocks, radium in.—Joly, J.
 Sinai Peninsula (Egypt).—Hume, W. F.
 Sind (India).—Vredenburg, E. W., 1, 4, & 5.
 Sinemurian, Portugal.—Pompeckj, J. F.
 Singu (Upper Burma).—Pascoc, E. H., 2.
 Sinian System, China.—Willis, B., 8.
 Sink-holes.—See Swallow-holes.
 Sin-t'ai (Shan-tung).—Ruehl, A., 2;
 Willis, B., 7.
 Sinters, artificial.—Kretschmer, J., 2.
Sinuspira & *Sinutropsis*.—Perner, J.
Siphonalia.—Ihering, H. von, 2.
 Siphnos I. (Cyclades).—Ktenas, K. A., 2.
 Sir-Daria (Turkestan).—Weber, V. N.
Sirenites.—Diener, C.
 Sitia (Crete).—Chalikiopoulos, L.
 Skamlingsbanke (Denmark).—Jessen, A., 2.
 Skienfjord (Norway).—Vogt, J. H. L., 3.
 Skiodroms.—Evans, J. W., 6.
 Skunnenmunk Mts. (N.Y.).—Hartnagel, C. A., 2.
 Skye (Scotland).—Peach, B. N.
Sladina.—Reed, F. R. C., 6.
 Slag-minerals, Laurium.—Lacroix, A., 7.
 Slags.—Kretschmer, F., 2.
 Slates, Harz.—Erdmannsdörffer, O. H., 2.
 —, United States.—Dale, T. N., 2;
 Perkins, G. H., 2.
 Slaty cleavage.—Becker, G.
 Småland (Sweden).—Gavelin, A.; Hasselman, H.
 SMITH, G. O.—See Anon., 24.
 Smithite.—Smith, G. F. H., 3.
Smithoceras.—Diener, C., 2.
 Snowfield, Jostedal.—Monckton, H. W.
 Societies, scientific.—Herries, R. S.
 Sodalite, Rajputana.—Holland, T. H.
 Soggedal (Norway).—Kolderup, C. F., 1 & 3.
 Soil, algæ &.—Fritsch, F. E.
 —, Belgium.—Simons, G., 2.
 —, British East Africa.—Crook, T., 6.
 —, Cape Colony, &c.—Juritz, C. F.; Schwarz, E. H. L., 7.
 —, classification of.—Potonié, H., 2.
 —, climates & temperature of.—Kuehl, W.

- Soil, Denmark.—Jessen, A., 1 & 2.
 —, fertility of different geological formations.—Love, J.
 —, Hungary.—Sigmond, A. von.
 —, Latium.—Orzi, D.
 —, Mexico.—Villaseñor, F. F.
 —, movements in.—Ewart, A. J.
 —, plants &.—Pammel, L. H.
 —, Prussia (W.).—Conwentz, H., 3.
 —, radio-activity of.—Howell, J. H.
 —, Rome.—Portis, A., 14.
 —, Schleswig-Holstein. — Schröder, H.
 —, Westphalia.—Bærtling, R.
 SOKOLOV, N. A., *Obit.*—See Karpinski, A. P., 3; Mikhailovski, G. P.
 Solar system.—Hobbs, W. H., 12;
 Schæberle, J. M., 1 & 2.
Solarium.—Etheridge, R., *fil.*, 3.
 SOLDANI, A.—Neviani, A.
Solecurtus.—Wilckens, O., 2.
Solen.—Ihering, H. von, 2.
Soleniscus.—Cumings, E. R., 2.
Solenocaris.—Reed, F. R. C., 4.
Solenomya.—Steinmann, G.
 Solfatara, the (Naples).—Bassani, F., 3.
 Solfataras, Phlegrean Fields.—Haas, H.; Krenner, J., 2.
 Solikamsk (Perm).—Krasnopolski, A., 2.
 Solutions, metal-bearing.—Park, J., 2-4;
 Stokes, H. N.
 Somabula (Rhodesia).—Mennell, F. P., 3.
 Somerset. — Bolton, H.; Buckman, S. S., 3; Davies, H. N.; Hinton, M. A. C.; Reynolds, S. H., 1-6; Richardson, L., 1 & 14; Sibly, T. F.; Ussher, W. A. E.; Vaughan, A., 4; Whidborne, G. F., 1 & 2.
 Somkele (Zululand).—Seward, A. C., 6;
 see also NATAL, 2.
 Somma, Mte. (Naples).—Lacroix, A., 4.
 Sonoma Co. (Cal.).—Sachs, A.
 Sonora (Mex.).—McGee, W. J.; Merrill, F. J. H., 2.
 Sörland (Norway).—Dal, A.
 Sospirolo (Venetia).—Dal Piaz, G.
 Soumaillies clay-pits, Pardailhan. — Vasseur, G.
 South African Museum.—See CAPE COLONY, 2, S. African Museum.
 — Australia.—Anon., 30; Duffield, T.; Hall, T. S., 4; Howchin, W.; Mawson, D., 1 & 2; Radcliff, S.; Rennie, E. H.; see also SOUTH AUSTRALIA, Dep. Mines.
 — (central district).—Davidson, A. A.
 — (N. Terr.).—Etheridge, R., *fil.*, 2.
 — Victoria Land (Antarctic). — See BRITISH MUSEUM, 2.
 Southwater (Sussex). — Woodward, A. S., 2.
 Spain, Geological Survey.—Mallada, L., 2.
 Spain, ore-deposits.—Ahlburg, J.
 —, Tertiary deposits. — Schlosser, M.
 —. See also Almeria, Barcelona, Catalonia, Tin, &c.
Spaniaster.—Schöndorf, F., 4.
 Spankau Lake (Dorpat).—Muehlen, M. von zur.
 'Sparassodonta.' — Lydekker, R., 3;
 Matthew, W. D., 3.
Sparidarum.—Leriche, M.
 Sparnacian, Paris Basin.—Combes, P., *fil.*, 2; Fritel, P. H.; Hamelin, L.
 Sparth & Sparth Bottoms Quarry (Lancs).—Woodward, H.
 Spas schists, Galicia.—Wisniewski, T.
 Spathic iron-ore, Westphalia.—Lotz, H., 2.
 Specific gravity of minerals.—Toula, F., 3.
 Speeton (Yorks). — Danford, C. G.; Sheppard, T.
 Speeton Shell-bed, Yorkshire.—Stather, J. W., 2.
 'Speranza' vein, nr. San Piero in Campo (Elba).—Achiardi, G. d', 2.
 Spergen Limestone.—See Salem Limestone.
 Spezia (Liguria).—Fucini, A.
Sphæra.—Woods, H., 2.
Sphæroaster.—Schöndorf, F.
Sphærium. — Cockerell, T. D. A., 3;
 Courty, G., 3.
Sphærocorype.—Reed, F. R. C.
Sphærospongia.—Siemiradzki, J. von.
Sphenasterophyllites.—Sterzel, J. T.
Sphenopteris.—Renier, A., 7; Sterzel, J. T.; Zeiller, R.
Sphenotus.—Clarke, J. M., 3.
Sphyrænodus & *Sphyrna*.—Priem, F., 4.
Spirifer.—Caneva, G.; Clarke, J. M., 3;
 Drevermann, F.; Gortani, M., 2;
 Reed, F. R. C.; Scupin, H.; Stucken-berg, A.; Weller, S.
Spiriferina. — Dal Piaz, G.; Renier, A.
Spiroclepeus & *Spiroclypeus*.—Boussac, J., 2.
Spiroloculina & *Spiroplecta*. — Chapman, F., 6.
Spiroraphe.—Perner, J.
Spirorbis.—Cumings, E. R., 2; Richardson, L., 2; Wilckens, O., 2.
 Spiti (Himalayas).—Diener, C., 3.
 Spitsbergen (Arctic).—Bruce, W. S.; Palibin, I. V., 2; Pavlov, A. P.
Spongaster.—Fritsch, A., 3.
 Sponges, Silurian.—Seely, H. M., 4;
 Siemiradzki, J. von.
 —, Tertiary.—Zeise, O., 1 & 2.
Spongiostroma.—Guerich, G., 1 & 4.
Spongiostromaceæ, Carboniferous. — Guerich, G., 4.
Spondylus.—Nelli, B., 2.
 Springs, limestone.—Putzey, E.
Spyroceras.—Ruedemann, R., 2.
Stacheites.—Diener, C., 2.

- Staffordshire. — Gibson, W., 2; Lapworth, C.; Smith, A.; Tonge, J.; Wynne, T. T.
- Stampian, Paris Basin. — Priem, F., 2.
- Stanford University, record of 1906 earthquake. — Marx, C. D.
- STANFORD'S Geological Atlas. — Woodward, H. B., 3.
- Stanhills (Queensl.). — Dunstan, B.
- Stassfurt (Germany). — Busz, K., 2; Zimmermann, E.
- Straparollus*. — Gortani, M., 2.
- State preservation of natural monuments. — Conwentz, H., 2, 6, & 7.
- Stauranderaster*. — Spencer, W. K.
- Stauropteris*. — Bertrand, P., 2.
- Stauropsira*. — Perner, J.
- Stedten (Merseburg). — Wuest, E., 8.
- Steneosaurus*. — Mawson, J.
- Stephanian, Saint-Etienne. — Friedel, G., 2.
- Stephanoceras*-beds, Germany. — Mascke, E., 2.
- Stephanocenia*. — Koby, F.
- Sterculia*. — Hollick, A.
- Sterlitamak Distr. (Ufa Gov.). — Kandukine, T.
- Sternberg (Moravia). — Kretschmer, F.
- Steubenville (Ohio). — Griswold, W. T.
- STEWART, C., *Obit.* — See Anon., 17.
- Stickleback, fossil. — Hay, O. P., 2.
- Stockach (Baden). — Stizenberger, J.
- Stoke Goldington (Bucks). — Thompson, B., 3.
- Stolpenite, Rhön Mts. — Fersmann, A., 2.
- Stomach-stones, reptilian. — Cannon, G. L., 2; Wieland, G. R.
- Stone-age, Norway. — Brægger, A. W., 1-4; Brægger, W. C.; see also *Implementa*, &c.
- Stonebarrow Cliff (Dorset). — Lang, W. D., 3.
- Stone river, Falkland Is. — Anderson, J. G., 3.
- Storeton (Cheshire). — Beasley, H. C., 2.
- Straparollina*. — Hudson, G. H.
- Strathconon Forest (Ross-shire). — Flett, J. S.
- Stream-capture. — See River-robbing.
- Stream-erosion, Bohemia. — Sokol, R.; see also *River-erosion*.
- Streblotrypa*. — Etheridge, R., *fil.*, 2.
- Strenuella*. — Shimer, H. W., 2 & 3.
- Streptelasma*. — Brown, T. C.
- Streptochetus*. — Oppenheim, P., 2.
- Striae, glacial, Yorkshire. — Gregory, E. E.; see also *Glaciation*, &c.
- Stricklandinia*. — Første, A. F.
- Strobilites*. — Hollick, A.
- Stromatoceridæ, Silurian. — Seely, H. M., 3.
- Stromatocerium*. — Seely, H. M., 2.
- Stromatopora*. — Bassler, R. S.
- *dichotomoides*, evolution of. — Lang, W. D.
- , Silurian. — Siemiradzki, J. von.
- Stromatoporidæ, Carboniferous. — Guérich, G. H.
- Strombus*. — Icke, I.
- Strontia-boulders, Bristol. — Bolton, H.
- Stropheodonta*. — Clarke, J. M., 3; Drevermann, F.
- Strophocheilus*. — Ihering, H. von.
- Strophomena*. — Scupin, H.
- Strophonella*. — Clarke, J. M., 3.
- Strophostylus*. — Beede, J. W.; Spitz, A.
- Stroud (Gloucester). — Richardson, L., 6.
- Struthiolaria*. — Ihering, H. von, 2.
- Struthiolariopsis*. — Wilckens, O., 2.
- Strüverite, Piedmont. — Zambonini, F., 4.
- STUCKENBERG, A. A., *Obit.* — See Anon., 18.
- Sturtzura*. — Chapman, F., 7.
- Styliolina*. — Reed, F. R. C.
- Styria (Austria). — Bauerman, H.; Heritsch, F., 2; Hørnes, R., 2; Vacek, M.; see also IRON & STEEL INST.
- Sublepedophloios*. — Sterzel, J. T.
- Subsidence, Mucking. — Holmes, T. V.; see also *Land, changes of level*.
- Subulites*. — Cumings, E. R., 2; Hudson, G. H.
- Sudan (Africa). — Chudeau, R.
- Sudbury (Ont.). — Coleman, A. P., 2 & 4.
- Suffolk. — Dutt, W. A.; Harmer, F. W., 2; Martin, E. A., 2; Slater, G.
- Suhi Vrk (Montenegro). — Ugolini, R.
- Suidæ, Quaternary. — Pilgrim, G. E.
- Sula Is. (Dutch East Indies). — Bøhm, G., 5.
- Sulphur, Louisiana & Sicily. — Aguilon, L.
- , Utah. — Emmons, S. F., 4.
- , Wyoming. — Trumbull, L. W.
- Sulzbach (Baden). — Eisele, H.
- Sulzmatt (Alsace). — Kranz, W.
- Sumatra (D.E.I.). — Martin, K.; Schmidt, C., 7; Tobler, A.; Volz, W.
- Sun, surface-temperature of the. — Schæberle, J. M.
- Sunnyside tunnel, Mount Wills. — Dunn, E. J.
- Superga (Piedmont). — Martin, D., 3.
- Superior, Lake (N. Am.). — Mackellar, P.
- Surface-tension, Victoria. — Leach, J. A.
- Surrey. — Martin, E. A., 1, 2, & 4; Young, G. W.
- Sus. — Seguenza, L.
- Susa (Japan). — See JAPAN, Imp Geol. Surv.
- Valley (Piedmont). — Sacco, F., 8; Zambonini, F.
- Sussex. — Abbott, W. J. L.; Cavis-Brown, J.; Elsdon, J. V., 1 & 2; Herries, R. S., 2; Martin, E. A., 1, 2, & 4; Woodward, A. S., 2.
- Sutcliffea*. — Scott, D. H.
- Sutherland (Scotland). — Peach, B. N.; Stopes, Marie C.
- Sutton-on-Sea (Lincs). — Sheppard, T.

- Svealand, ore-localities in.—Stelzner A., W.
- Sveltia*.—Ihering, H. von, 2.
- Svinhult (Gothland).—See SWEDEN, Geol. Undersökn.
- Swabia.—Ammon, L. von, 2; Plieninger, F.; Schuster, M. E.; Schuetze, E.; Sieberer, K.; Zeller, F.
- Swallow-holes, origin of.—Purdue, A. H.; Sellards, E. H., 2.
- , submarine.—Martel, E. A., 2.
- Swansea (Glamorgan).—Davison, C.; Strahan, A., 2.
- Sweden.—Fearnside, W. G.; Holmquist, P. J.; Johansen, A. C.; Johansson, H.; Nordmann, V., 2; Sederholm, J. J.; Stutzer, O., 2; Wiman, C.
- , Geological Survey.—Andersson, J. G., 1 & 2.
- Swedish Magellan Expedition.—Steinmann, G., 14.
- Switzerland, Clansayes fauna.—Stolley, E.
- , Geological Commission. — See SWITZERLAND, Beiträge.
- , geological relief map.—Schmidt, C., 3.
- , geology of.—Carter, W. L., 2; Heim, A., 1-5; Schardt, H., 1-5; Travis, C. B., 1 & 5.
- , 1770-1900.—Rollier, L.
- , 1905 & 1906.—Sarsin, C., 2 & 3.
- , origin of Alps.—Bonney, T. G.; Schardt, H., 4.
- , See also Alps, Asphalt, Berne, Gold, Jura, Simplon, &c.
- Sycidium*.—Karpinski, A. P., 2.
- Sycum*.—Cossman, M., 2; Oppenheim, P., 2.
- Sydney (Nova Scotia).—Fulton, T. T.; Wolfe, L. A. de.
- Syenite, Aswan.—Ball, J.
- , Madagascar.—Lemoine, P., 4.
- , Urals.—Yakovlev, N., 2.
- , Vizagapatam.—Walker, T. L.
- Syenitic rocks.—Rosenbusch, H.
- Syllæmus*.—Woodward, A. S., 7.
- Sylt (Frisian Is.).—Petersen, J.
- Sylvite.—Cornu, F.; Rinne, F.
- Symballophlebia*.—Handlirsch, A.
- Symmetry, crystalline.—Evans, J. W., 7; see also Crystals, &c.
- Synchysite, Greenland.—Bæggild, O. B.
- Synthesis of minerals.—Mourel, J. R.
- Syntrophia*.—Hudson, G. H.
- Syra I. (Cyclades).—Ktenas, K. A., 2.
- Syria.—Freise, F., 2; Hennig, E., 2.
- Syringodendron*.—Coward, K. H.
- Syringopora*.—Cumings, E. R., 2; Stuckenberg, A.
- Syringosphæridæ, Triassic.—Oppenheim, P., 5.
- Systema Naturæ.—Linné, C.
- Tachytrotherium.—Roth, S., 3.
- Tacna (Peru).—Adams, G. I.
- Tagish, Lake (Yukon).—CANADA, Geol. Surv., 2; McConnell, R. G.
- Tagus R. (Portugal).—Choffat, P.
- Tai-Yuan-Fu (Shan-Si).—Willis, B., 6.
- Takhtuga R. (Siberia).—Preobrazhenski, P. I.
- Talc, Ural Mts.—Ivanov, L. L.
- Talevadi (Bombay Pres.).—Fermor, L. L., 2.
- Talgai (Queensl.).—Ball, L. C., 2.
- Taliabu I. (Sulu Is).—Boehm, G., 5.
- Tallulah (Ga.).—Johnson, D. W., 2 & 3.
- Taltal (Chile).—Evans, O. H.
- Tambov Gov. (Russia).—Bogoslovski, N.
- Tanana R. (Alaska).—Prindle, L. M.
- Tancredia*.—Whitfield, R. P., 2.
- Tantalite, Norway.—Brøgger, W. C., 3.
- , W. Australia.—Simpson, E. S., 2.
- Tantalum.—Giles, W. B.; Warren, C. H.
- Tantobie (Durham).—Smythe, J. A.
- Taoudeni (Sahara).—Flanand, G. B. M., 2.
- Tapes*.—Bogachev, V.; Wilckens, O., 2.
- Tarbes (Hautes-Pyrénées).—Carez, L.
- Tarentaise (Savoy).—Kilian, W., 8.
- Tarikere (Mysore).—Slater, H. K.
- Tarn Valley (Tyrol).—Young, A. P.
- Tarphyceras*.—Ruedemann, R., 2.
- Tasmania.—Giglioli, H. H.; Johnston, R. M., 1-3; Osann, A.; Pettard, W. F.; Twelvetrees, W. H., 1-6; Walker, J. B.; see also TASMANIA, Dep. Mines, &c.
- Tatong (Viet.).—Howitt, A. M.
- Taunus Mts. (Germany).—Bodifée, —; Henrich, F.
- Taviche (Mexico).—Williams, R. H.
- Tchetchna R. (Siberia).—See Chechna.
- Tchissapa Chain (Ural Mts.).—Dupare, L., 2 & 3.
- Tchussovaia R. (Russia).—Chernov, A.
- Tectospora*.—Diener, C., 2.
- Teeth, *Ceratodus*.—Miall, L. C.
- , Dinosaur.—Cannon, G. L.
- , mammalian.—Laloy, L.
- Tehachapi Valley (Cal.).—Lawson, A. C., 2.
- Tehuelia*.—Roth, S.
- Teleidosaurus*.—Collot, L.
- Teleostomous fishes.—Gregory, W. K.
- Tell (Algeria).—Savornin, J., 3.
- Tellina*.—Ihering, H. von, 2; Tokunaga, S.; Woods, H., 2.
- Tellinomorpha*.—Bolton, H.
- Tellurium-ores.—Wilson, E. B.
- Tembeling Series, Malay States.—See MALAY STATES, Geol. Rep.
- Temiskaming (Ont.).—See Timiskaming.
- Temnocyon*.—Merriam, J. C.
- Temnospira*.—Perner, J.
- Temperature, underground. — Koenigsberger, J., 3. See also Soils.

- Temperatures, Quaternary.—Johansen, A. C.
Tenagodus.—Ihering, H. von, 2.
 Tennessee (U.S.A.).—Clark, W. C.; Emmons, S. F., 3; Glenn, L. C.; Watson, T. L., 5.
Tentaculites.—Clarke, J. M., 3; Reed, F. R. C.
Tephrocyon.—Merriam, J. C.
 Teplitz (Bohemia).—Cornu, F., 6; Hirsch, J. E.
Terebra.—Icke, H.; Ihering, H. von, 2.
Terebratalia.—Arnold, R., 3.
Terebratula.—Buckman, S. S., 4; Dal Piaz, G.; Gortani, M., 2; Richardson, L., 14; Schmidt, M., 3.
Teredo.—Whitfield, R. P., 2.
 Terego (Hungary).—Roth von Telegd, L.
 Terlingua (Texas).—Hillebrand, W. F., 3; Sachs, A.
 Terlinguaite.—Hillebrand, W. F., 3.
 Terrace-gravels, Hesse.—Steuer, A.
 Terraces, Carolina (North).—Johnson, B. L.
 —, Franco-Belgian valley.—Rutot, A., 2 & 4.
 —, glacial erosion &.—Kilian, W., 5.
 —, Keuka Valley.—Carney, F.
 —, Lübeck.—Spethmann, H.
 —, Meuse & Ourthe Valleys.—Munck, E. de, 1 & 2.
 —, Neckar Valley.—Haug, F.
 —, Norway.—Rekstad, J., 3.
 —, origin of river.—Sévastos, R.
 —, Rhine (Rh.-Pruss.).—Steinmann, G., 10.
 —, Rio Grande (N. Mex.).—Keyes, C. R., 5.
 —, Saale Valley.—Picard, E.; Wuest, E., 2.
 —, Saône Valley.—Bérou d. J. M.
 —, Ulm Valley.—Mahler, K.
 Terrigenous deposits, composition of.—Clarke, F. W.
 Tertiary, Alaska.—Kindle, E. M., 2.
 —, Algeria.—Zeise, O.
 —, Aniene Valley.—Prever, P. L.
 —, Apennines.—Parisich, C.
 —, Arizona.—Robinson, H. H.
 —, Arkansas & Louisiana.—Veatch, A. C.
 —, Balkan Peninsula.—Oppenheim, P.
 —, Belgium.—Van Ertborn, O., 1-10.
 —, Biarritz.—Boussac, J., 5; Oppenheim, P., 2.
 —, Blackheath (Kent).—Holmes, T. V., 3.
 —, Brandenburg.—Wahnschaffe, F.
 —, California.—Arnold, R., 3.
 —, Cassel.—Hornstein, F. F., 1.
 —, Catalonia.—Cossmann, M., 2.
 —, classification of.—Dollfus, G. F., 3.
 —, Colorado.—Cockerell, T. D. A., 2 & 3.
 Tertiary, Dalmatia.—Schubert, R. J., 2.
 —, Denmark.—Ravn, J. P. J., 1-4.
 —, Dieppe.—Morellet, L.
 —, Egypt.—Andrews, C. W., 2; Oppenheim, P., 3.
 —, Emilia.—Stefanini, G.
 —, Georgia.—Harper, R. M.
 —, Gironde, &c.—Replin, J., 2.
 —, Granada (Spain).—Hobbs, W. H., 2.
 —, Hampshire.—Boussac, J., 8.
 —, Hanover.—Menzel, H., 2.
 —, Hesse.—Stoltz, K.
 —, Hungary.—Gaál, S.
 —, Italy (North).—Boussac, J., 4; Canestrelli, G., 2.
 —, Japan.—Tokunaga, S.
 —, land-areas.—Matthew, W. D., 2.
 —, Liguria.—Bellardi, L.; Sacco, F., 1 & 2.
 —, Limburg (Belgian & Dutch).—Velge, G.
 —, Loire Basin.—Dollfus, G. F.
 —, Madagascar.—Thevenin, A., 2.
 —, Mainz Basin.—Delkeskamp, R.; Schöndorf, F., 3 & 4; Steinmann, G., 5.
 —, Marne.—Leriche, M., 3.
 —, Nevada.—Merriam, J. C., 5.
 —, New Mexico.—Keyes, C. R., 2; Robinson, H. H.
 —, Nias I.—Icke, H.
 —, Nigeria.—Parkinson, J., 3.
 —, Oregon.—Merriam, J. C., 6; Sinclair, W. J.
 —, Paris Basin.—Combes, P., *fil*, 1-4; Cossmann, M., 3; Dollfus, G. F., 2-5; Hamelin, L., 1 & 2; Munier-Chalmas, E.; Priem, F., 2 & 3.
 —, Patagonia.—Ameghino, F., 3.
 —, Piedmont.—Bellardi, L.; Sacco, F., 1, 2, & 5.
 —, Pomerania.—Gagel, C.; Schneider, O., 2.
 —, Rome.—Meli, R.
 —, Russia (S.).—Sokolov, N. A.
 —, San Marino Republic.—Nelli, B., 2; Trabucco, G.
 —, Scania.—Holst, N. O., 3.
 —, Silesia.—Michael, R., 2.
 —, Sind.—Vredenburg, E. W.
 —, Spain.—Mallada, L., 2; Schlosser, M.
 —, Sudan.—Chudeau, R.
 —, Sylt I.—Petersen, J.
 —, Vermont.—Perkins, G. H., 5.
 —, Victoria.—Chapman, F., 6; Kitson, A. E., 2.
 —, volcanic eruption, Hsenwi.—La Touche, T. H. D., 2.
 —, Württemberg.—Geyer, D.; Miller, K.
 —, Wyoming.—Loomis, F. B., 1 & 2.
 —. See also Miocene, &c.
Tessinianum.—Linné, C., 3.
Testacella.—Maury, E.
Tetracrita.—Alessandri, G.

- Tetradymite.—Nenadkevich, K. A.; Vernadski, V. I.
 Tetrahedrite, Apuan Alps.—Manasse, E.
 —, Donetz Basin.—Samoïlov, Y.
Tetraprothomo.—Ameghino, F., 6.
 Teutoburg Forest (Germany).—Mestwerdt, A.
Teutomanis.—Ameghino, F., 2.
 Texas (U.S.A.).—Dumble, E. T.; Emmons, S. F., 3; Fenneman, N. M.; Gould, C. N., 2; Hillebrand, W. F., 3; Ries, H.; Sachs, A.; Taylor, T. U.
 Texcoco, Lake (Mexico).—Cayeux, L.
Textularia.—Chapman, F., 6.
 Texture of igneous rocks.—Cross, W., 3.
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Thamnarea.—Koby, F.
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Thamniscus.—Johnsen, A.
 Thane's Creek (Queensl.).—Ball, L. C., 2.
 Tharandt (Saxony).—Cesáro, G.
Thaumatopteris.—Nathorst, A. G.
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 —, Lucca.—Magri, G.
 —, origin of.—Gautier, A., 2.
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Thisbites.—Diener, C.
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 Thorianite.—Szilard, B.
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 Thuringia (Germany).—Neumann, E.; Picard, E.; Schaefer, H. F.; Schneider, O.; Walther, K.
 Tian-Shan Mts. (Asia).—Friederichsen, M.; Keidel, H.
 Tibet (Asia).—Maclaren, J. M., 3; Oppenheim, P., 5.
 Ticino (Switzerland).—Klemm, G., 2; Heim, A., 3.
 Tickhill (Yorks).—Culpin, H.
 Tideswell (Derby).—Jones, T. A., 3.
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 Timbuctoo (Sahara).—Rommel, A. de.
 Timiskaming (Ont.).—Campbell, W., 2.
 Timor (D.E.I.).—Boehm, G., 3 & 4.
 Tin, Alaska.—Brooks, A. H., 2.
 —, Bolivia.—MacAlister, D. A., 3; Steinmann, G., 4.
 —, Carolina (N. & S.).—Graton, L. C.
 —, Chinese.—Browne, F.
 —, Cornwall.—Collins, J. H.; Hill, J. B., 2; MacAlister, D. A., 1 & 2.
 —, Malay States.—Rumbold, W. R.; Treacher, Sir W. H.; see also MALAY STATES, Geol. Rep.
 —, Nigeria.—Crook, T.
 —, New South Wales.—See also NEW SOUTH WALES, Dep. Mines.
 —, Queensland.—Cameron, W. E., 2; Dunstan, B., 3.
 —, Spain.—Sánchez Lozano, R.
 —, Tasmania.—Twelvetrees, W. H., 1 & 3; see also TASMANIA, Dep. Mines, 1-8.
 —, Texas.—Emmons, S. F., 3.
 —, Victoria.—Gregory, J. W., 4.
 —, W. Australia.—Simpson, E. S., 2; see also WESTERN AUSTRALIA, Dep. Mines.
 Tinto R. (Spain).—Wood, R. H.
 Tippecanoe Co. (Ind.).—Wilson, G. W.
 Tipperary Co. (Ireland).—Russell, A., 2.
 Tirap R. (Assam).—Simpson, R. R., 2.
 Tissington (Derby).—Arnold-Bemrose, H. H.
 Tisza R. (Hungary).—Horusitzky, H.
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 Titaniferous basalt of W. Mediterranean.—Crook, T., 2; Washington, H. S.
 Titanite.—Fedorov, E. S., 3; Tertsch, H.
 Titanium.—Giles, W. B.; Warren, C. H.
 Titano, Monte (San Marino).—Nelli, B., 2; Stefani, C. de.
 Titanoniobate, Norway.—Brøgger, W. C., 3.
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 —, Lyonnais.—Riaz, A. de.
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- Tonbridge (Kent).—Abbott, L.
 Toombullup (Victoria).—Kitson, A. E.
 Tooraweanah (N.S.W.).—Pittman, E. F.
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Tornatina.—Ihering, H. von, 2.
 Torquay (Devon).—Jukes-Browne, A. J., 1-3.
 —, Natural History Society's Museum.
 —Jukes-Browne, A. J., 3.
 Torridonian, N.W. Highlands.—Peach, B. N.
 Töss Valley (Switzerland).—Frueh, J., 2.
 Tottenham (London).—Reader, T. W.
 Tourmaline.—Reimann, G.; Schaller, W. T.; Serra, A., 2; Spencer, L. J., 2.
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 Tournay (Hainault).—Cornet, J., 8.
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Trachyspatangus.—Nelli, B., 2.
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 —, Transylvania.—Pálffy, M. von., 2 & 3.
 Tramore Bay (Ireland).—Reed, F. R. C., 2.
 Trang (Norway).—Vogt, J. H. L., 3.
 Transcaucasia (Russia).—Kvitka, S.
 Transvaal (S. Afr.).—Beck, R., 3 & 7; Davis, W. M., 4; Hall, A. L.; Hatch, F. H., 1-4; Humphrey, W. A., 1-3; Johnson, J. P.; Kynaston, H., 1-3; Macco, A.; MacLaren, J. M., 6; Mellor, E. T., 1-6; Penrose, R. A. F., *fil.*; Voit, F. W., 1, 2, & 4; Wagner, P. A.; Young, R. B., 2; *see also* TRANSVAAL, Mines Dep., 1-3.
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 Trautenau (Bohemia).—Petrascheck, W.
 Travellers, geology for.—Revuelto, E.
 Traversella (Piedmont).—Colomba, L., 1 & 3; Spezia, G.
 Travertine, Indiana.—Wilson, G. W.
 —, Palermo.—Salinas, E., 2.
 —, Sézanne.—Viguier, R., 2.
 Trechmannite.—Smith, G. F. H., 3.
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 Tremadoc, British & Scandinavian.—Fearnside, W. G.
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Trepospira.—Beede, J. W.
 Trettach Valley (Bavaria).—Schulze, G.
 Trias, Algeria.—Savornin, J., 3.
 —, Bavaria.—Reis, O. M.
 —, Black Forest.—Schalch, F.
 —, Bristol.—Bolton, H., 1 & 2.
 —, California.—Smith, J. P., 2.
 —, Caucasus.—Chernyshev, T.
 —, China.—Zeiller, R., 2.
 —, Dalmatia.—Bukowski, G. von, 1 & 3.
 —, Dutch East Indies.—Boehm, G., 3.
 —, Elgin.—Woodward, A. S.
 —, fauna of British. — Lomas, J., 9.
 —, Germany. — Fritsch, K. von; Wuest, E., 6; Zeller, F.
 —, Greece.—Frech, F., 4; Renz, C., 1 & 3.
 —, Hanover.—Grupe, O.; Harbort, E.
 —, Himalayas.—Diener, C., 1-3.
 —, Hungary.—Staff, H. von.
 —, Lancashire. — Beasley, H. C.; Walker, W. T.
 —, Leicestershire.—Bosworth, T. O.; Derryhouse, A. R., 2.
 —, Mansfeld.—Wuest, E., 5.
 —, Montenegro.—Martelli, A., 2.
 —, Nevada.—Merriam, J. C., 2.
 —, New Jersey.—Lewis, J. V., 2 & 3.
 —, New Siberia Is.—Nathorst, A. G., 4.
 —, origin of British.—Bonney, T. G., 4 & 6.
 —, Rhön Mts.—Buecking, H.
 —, Salzburg.—Till, A.
 —, Staffordshire.—Gibson, W., 2.
 —, Tibet.—Oppenheim, P., 5.
 —, Tunis.—Joly, A.
 —, Tyrol.—Broili, F., 3; Gordon, M. O.; Haug, E., 4; Waagen, L., 3 & 4.
 —, Vacluse district.—Joleaud, L., 2.
 —, Venetia.—Maddalena, L., 2.
 —, Vosges.—Kranz, W.
 —, Württemberg. — Blanck, E.; Schmidt, M., 1-4.
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 Trilobite Mt. (N.Y.).—Shimer, H. W.
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 —, Carboniferous.—Cumings, F. R., 2; Lantenois, H.; Woodward, H., 5.
 —, classification of.—Guerich, G., 2.

- Trilobites, Devonian.—Clarke, J. M., 3; Courty, G., 3; Schmidt, W. E.; Walther, K.
 —, limbs of.—Handlirsch, A., 3; Moberg, J. C., 3.
 —, Ordovician.—Fearnside, W. G., 3; Moberg, J. C.; Post, L. von; Reed, F. R. C., 8; Weller, S., 3.
 —, Perno-Carboniferous.—Gortani, M., 2.
 —, Silurian.—Hudson, G. H.; Moberg, J. C., 2 & 3; Reed, F. R. C.; Schmidt, F.; Siemiradzki, J. von; Vogdes, A. W., 2.
Trimercephalus.—Walther, K.
 Trimmingham (Norfolk).—Howorth, Sir H. H.
 Trinidad (W.I.).—Evans, J. W., 3 & 4.
Trinnucleus.—Fearnside, W. G., 3.
Triodon.—Leriche, M.
Triplecia.—Wiman, C.
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Trochiliscus.—Karpinski, A. P., 2.
Trocholites.—Ruedemann, R., 2.
Trochonema.—Clarke, J. M., 3.
Trochoturbinidæ, Silurian.—Perner, J.
Trochus.—Broili, F., 3; Icke, H.; Spitz, A.; Stuckenberg, A.; Tokunaga, S.; Wollemann, A.
 Troia (Tuscany).—Nelli, B.
 Trois-Couronnes, Mt. (Pays basque).—Termier, P.
 Tromsø (Norway).—Dal, A.; Tanner, V., 3.
Trophon.—Ihering, H. von, 2; Tokunaga, S.
Tropiceltites.—Diener, C.
Tropidodiscus.—Clarke, J. M., 3.
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Trygon.—Leriche, M.
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Tubina.—Spitz, A.
Tubomphalus.—Perner, J.
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 —, Grod.—Ascher, E.
 —, Jutland Eocene.—Gagel, C., 4.
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 —, Ben Nevis.—Mackie, W.
 —, Gambier Mt.—Hall, T. S., 5.
 Tug Fork (Ky.).—Crandall, A. R.
 Tulbagh (Cape Colony).—Schwarz, E. H. L., 2.
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 Tungsten, Sardinia.—Lovisato, D.
 Tungstic ores, occurrence of.—Nicolardot, P., 4.
 Tunis (N. Afr.).—Haug, É., 3; Joly, A.; Pervinquier, L., 2 & 3; Stefani, C. de, 2; Tietze, O., 3.
 Tunnel, Braine-le-Comte.—Hankar-Urban, A., 2; Van Ertborn, O., 2.
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 —, Gardanne.—Boistel, A.; Domage, H.; Fournier, E., 3; Replin, J.
 —, Hauenstein.—Mandy, J. T.
 —, Joker.—Herrick, R. L., 2.
 —, Simplon.—Fox, F.; Schmidt, C., 1, 4, & 8; see also Simplon.
 Tunnels, London.—Barrow, G.
 —, Paris.—Meunier, S.
 Tuolluvaara (Sweden).—Stutzer, O., 2.
Turbo.—Broili, F., 3; Icke, H.; Schepman, M. M.
Turbocheilus & Turbonaria.—Perner, J.
Turbonilla.—Ihering, H. von, 2.
 Turfan Basin (Chinese Turkestan).—Huntington, E.
 Turgai (Siberia).—Tikhonovich, N.
 Turin (Piedmont).—Bellini, R.; Clerici, E., 2; Prever, P. L., 2; Sacco, F., 3 & 5.
 Turkestan (Asia).—Bruce, C. D.; Edelstein, J. S.; Huntington, E.; Omori, F.; Rickmers, W. R.; Stepanov, P.; Weber, V. N.
 Turkey, Asiatic.—Freise, F., 2.
 —, European.—Oddone, E.; Oppenheim, P., 2.
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 Turquoise, Victoria.—Howitt, A. M.
Turricula.—Icke, H.; Schepman, M. M.
Turrilepas.—Alessandri, G.
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 Turtles, Eocene.—Hay, O. P.
 Tuscany (Italy).—Achiardi, G. d'; Canestrelli, G.; Cocchi, I.; Fucini, A., 2; Magri, G.; Manasse, E.; Martelli, A.; Merciai, G., 2 & 3; Parisch, C., 2; Portis, A., 2; Stefano, C. de, 3; Vinassa de Regny, P., 2 & 3; Zaccagna, D.
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Tylostoma.—Ihering, H. von, 2.
 Type-specimens, LAMARCK'S.—Bigot, A.
 —, Museum of Practical Geology.—Allen, H. A.
 —, Torquay Museum.—Jukes-Brown, A. J., 3.
 —, U. S. National Museum, Washington.—Merrill, G. P.
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- Tyrol (Austria).—Ampferer, O., 3; Becke, F., 8; Berwerth, F., 2; Broili, F., 3; Eichleiter, C. F.; Frech, F.; Gordon, M. M. O.; Hammer, W., 1 & 2; Haug, E., 3; Leuchs, K.; Sander, B.; Tornquist, A., 2; Waagen, L., 2 & 4; Young, A. P.
- Tyrone (Ireland).—Fearnside, W. G., 3 & 4.
- Twärminne (Finland).—Suomalainen, E. W.
- Uckermark (Pomerania).—Gagel, C.
- Udine district (Venetia).—Gortani, M.
- Uetersen (Schleswig-Holstein).—Schroeder, H.
- Ufa Gov. (Russia).—Kandukine, T.; Nechaev, A. V.
- Uganda (Central Africa).—Colomba, L., 4; Roccati, A., 3.
- Ugo (Japan).—Beckenkamp, J.
- Uifak (Greenland).—Schwantke, A.
- Uinta Co. (Wy.).—Emmons, S. F., 3.
- Uinta Mts. (Utah).—Atwood, W. W.
- Uintacrinus*.—Dibley, G. E.; Martin, H. T., 1 & 2.
- Uitenhage (Cape Colony).—Rogers, A. W., 2.
- Series, Cape Colony, — Kitchin, F. L.
- Ukiah (Cal.).—Townley, S. D.
- Uley Bury (Gloucester).—Richardson, L.
- Ulm a. D. (Württemberg).—Mahler, K.; Miller, K.
- Ulodendron*.—Peola, P.
- Ulster (Ireland).—Fearnside, W. G., 3.
- Umberatana (S. Austral.).—Mawson, D.
- Umbonium*.—Broili, F., 3.
- Umbospira* & *Umbotrochus*.—Perner, J.
- Umbria (Italy).—Principi, P.; Vinassa de Regny, P.
- Umpenyati R. (Natal).—Crick, G. C., 5.
- Umsinene R. (Zululand).—Etheridge, R., *fil.*, 3.
- Unconformity east of the Harz. — Wuest, E.
- Unicardium*.—Woods, H., 2.
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- Uniondale (Cape Colony).—Schwarz, E. H. L.
- Underbank (Yorks).—Watts, W.
- Underground temperature.—See Temperature.
- Undina*.—Heineke, E.
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- , slate-industry.—Dale, T. N., 2.
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- Unsen-daké eruption, Japan, 1792.—Omori, F., 14.
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- Uralitization.—Duparc, L.
- Uranite.—Andriment, R. d'; Szilard, B.
- Uranium-minerals, German E. Africa. — Marckwald, W.; Tornau, —.
- Uri (Switzerland).—Trevis, C. B.
- Urosalpinx*.—Ihering, H. von, 2.
- Ursus*.—Böechler, E.; Fox, W. S., 2; Portis, A., 6; Reynolds, S. H., 3.
- Usk Valley (S. Wales).—Carter, W. L., 7.
- Ussolka (Ufa Gov.).—Nechaev, A. V.
- Utah (U.S.A.).—Atwood, W. W.; Boutwell, J. M.; Brinsmade, R. B., 4; Cross, W., 2; Dern, J.; Emmons, S. F., 3 & 4; Johnson, D. W., 1; Richardson, G. B.
- Utica (N.Y.).—Cushing, H. P., 2.
- Utö I. (Sweden).—Holmquist, P. J., 2.
- Vaal R. (S.Afr.).—Fraas, E., 4; Mellor, E. T., 6.
- Vaginoceras*.—Ruedemann, R., 2.
- Valais (Switzerland).—Bowman, H. L.; Busz, K.; Lugeon, M., 2; Newbigin, M. I.; Schardt, H., 5; Trechmann, C. O.
- Valcour I. (N.Y.).—Hudson, G. H.
- Valleys, Emme & Reuss.—Frey, O.
- , glacial erosion in.—Carney, F., 5.
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- , Himalayas.—Oldham, R. D., 2.
- , origin of.—Groom, T. T.
- , river.—Davis, W. M.
- Vallonia*.—Wuest, E.
- Valoisien, Paris Basin.—Combes, P., *fil.*
- Valparaíso (Chile).—Henriquez, H.; Milne, J.; Oldham, R. D., 5; Omori, F., 10; Pécsi, A.; Steffen, H.; Upham, W., 2; Villareal, F.
- Valtellina (Lombardy).—Mariani, E.
- VAN DEN BRÛCK, E.—See BRUSSELS, Soc. belge Géol.
- Vanadium-sulphide, Peru.—Hillebrand, W. F.
- Vancouver (B.C.).—Pavlov, A. P.
- Vanikoro (D.E.I.).—Behm, G., 3.
- Vanoise massif (Savoie).—Lemoine, P., 3.
- Vanthoffite, Vesuvius.—Lacroix, A., 5.
- Vascongadas (Spain).—Adán de Yarza, R., 2.
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- Vaucluse (France).—Deydier, M.; Jo-leaud, L., 2.
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- intrusive or volcanic.—Souza Brandão, V. de.
- , sand-filled.—Clarke, J. M., 6.
- Veins, Cornwall.—Hill, J. B.; Reid, C., 1 & 2.
- , origin of.—Hoppe, O.; Kemp, J. F., 2; Park, J., 2-4.
- See also Ore-deposits, &c.
- Velino, Mte. (Abruzzo).—Cassetti, M.
- Vence (Alpes-Maritimes).—Guébbard, A.
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- Venetia (Italy).—Boussac, J., 2 & 5; Canestrelli, G., 1 & 2; Caneva, G.; Dal Piaz, G.; Gortani, M., 1-3; Harboe, E. G., 2; Maddalena, L., 2 & 3; Nicolis, E., 2.
- Veniella.—Etheridge, R., *fil.*, 3.
- Venus.—Dollfus, G. F., 7; Wilckens, O., 2.
- Venus-deposit, New York City.—Wilson, J. H.
- Vérchné (Perm).—Krasnopolski, A.
- Vercors District (France).—Jacob, C.; Pâquier, V., 1 & 2.
- Verde, Mte. (Rome).—Verri, A.
- Vereeniging (Transvaal).—Mellor, E. T., 6.
- Vermetus.—Grupe, O.; Ihering, H. von, 2.
- Vermont (U.S.A.).—Dale, T. N.; Edson, G. E.; Hitchcock, C. H., 1-3; Jeffrey, E. C., 2; Marsters, W. F.; Perkins, G. H., 1-11; Richardson, C. H.; Seely, H. M., 2-4.
- Verona (Venetia).—Nicolis, E., 2.
- Verruca.—Alessandri, G.
- Vervan Series, Cornwall.—Hill, J. B., 2.
- Vesteraalen Is. (Norway).—Kolderup, C. F., 4.
- Vesuvius (Italy).—Bassani, F., 4; Bellini, R., 3; Brun, A.; Cesari, C.; Deprat, J., 4; Eastman, C. R., 1 & 4; Johnston-Lavis, H. J.; Kolderup, C. F., 12; Lacroix, A., 1, 2, & 4-6; Matteucci, R. V.; Michael, R.; Philippi, E., 2; Sabatini, V.; Scarpa, O.; Stoklasa, J.; Szathmáry, L. von; Zambonini, F., 2.
- Viatka Gov. (Russia).—Krotov, P.
- Vicenza (Venetia).—Boussac, J., 4 & 5; Canestrelli, G., 1 & 2; Maddalena, L., 2 & 3.
- Victoria (Austral.).—Armitage, R. W.; Baragwanath, W.; Baragwanath, W., *fil.*, 1 & 2; Barnard, F. G. A., 1 & 2; Chapman, F., 1-9; Dunn, E. J., 1-38; Ferguson, W. H.; Gregory, J. W., 3, 4, 7, 8, & 11; Hall, T. S., 1-7; Howitt, A. M., 1-4; Kitson, A. E., 1-6; Leach, J. A.; Mahony, D. J.; Mattingley, A. H.; Noetling, F.; Pritchard, G. B.; Reid, D.; Stopes, M. C., 2; Thiele, E. O., 1-4; Whitelaw, O. A. L.; *see also* VICTORIA, Dep. Mines.
- Victoria Falls (Zambezi R.).—Balfour, H.; Lamplugh, G. W., 1 & 2.
- Nyanza (C. Afr.).—Smith, G. E.
- West (Cape Colony).—Broom, R., 6.
- Vienna (Austria).—Toula, F.
- Basin.—Berwerth, F.; Schaffer, F. X.; Trauth, F.; Troll, O. von.
- Viernheim (Hesse).—Schottler, W.
- Vigizzo Valley (Piedmont).—Zambonini, F.
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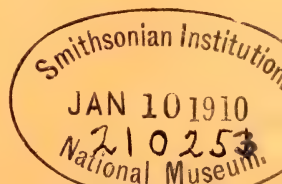
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- Actes Soc. helv. Sci. nat.* Actes de la Société helvétique des Sciences Naturelles. Berne, &c. See also *Verh.-schweiz. naturf. Gesellsch.*
- Actes Soc. Linn. Bordeaux.* Actes de la Société Linnéenne de Bordeaux. Bordeaux.
- Actes Soc. sci. Chili.* Actes de la Société scientifique du Chili. Santiago de Chile.
- Alabama Geol. Surv.* Geological Survey of Alabama. Montgomery (Ala.).
- Am. Geol.* American Geologist. Minneapolis (Minn.). See *Econ. Geol.*
- Am. Journ. Sci.* American Journal of Science. New Haven (Conn.).
- An. Inst. geol. României.* Anuarul Institutului geologic al României. Bukharest.
- An. Mus. La Plata.* Anales del Museo de la Plata. Buenos Aires.
- An. Mus. Nac. Buenos Aires.* Anales del Museo Nacional de Buenos Aires. Buenos Aires.
- An. R. Acad. Cienc. Madrid.* Anuario de la Real Academia de Ciencias exactas, físicas y naturales. Madrid.
- An. Soc. cient. Argent.* Anales de la Sociedad científica Argentina. Buenos Aires.
- Ann. Acad. Roy. Belg.* Annuaire de l'Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique. Brussels.
- Ann. Bull. Min. Resources, Kansas, Univ. Geol. Surv. Kansas.* Annual Bulletin on the Mineral Resources of Kansas. Lawrence (Kan.).
- Ann. Club alpin franç.* Annuaire du Club alpin français. Paris.
- Ann. Escola Minas, Ouro Preto.* Annaes da Escola de Minas. Ouro Preto (Brazil).
- Ann. Géol. et Paléont. Palerme.* Annales de Géologie et de Paléontologie. Palermo.
- Ann. Glaciologie, Berlin.* See *Zeitschr. f. Gletscherk. Berlin.*
- Ann. k.-k. naturhist. Hofmus. Wien.* Annalen des kaiserlich-königlichen naturhistorischen Hofmuseums. Vienna.
- Ann. Mag. Nat. Hist.* Annals and Magazine of Natural History. London.
- Ann. Mines, Paris.* Annales des Mines. Paris.
- Ann. N.Y. Acad. Sci.* Annals of the New York Academy of Sciences. New York.
- Ann. R. Univ. toscane.* Annuario delle Reali Università toscane. Pisa.
- Ann. Rep. Am. Mus. Nat. Hist. N.Y.* Annual Report of the American Museum of Natural History. New York.

- Ann. Rep. Bristol Public Lib.* Annual Report of the Bristol Public Library and Museum. Bristol.
- Ann. Rep. Dep. Geol. Indiana.* Annual Report of the Department of Geology and Natural Resources of Indiana. Indianapolis (Ind.).
- Ann. Rep. Dep. Mines, B.C.* Annual Report of the Department of Mines, British Columbia. Victoria (B.C.).
- Ann. Rep. Dep. Mines, N.S.W.* Annual Report of the Department of Mines and Agriculture, New South Wales. Sydney.
- Ann. Rep. Dep. Mines, Queensl.* Annual Report of the Under Secretary for Mines, Queensland. Brisbane. See also *Geol. Surv. Queensl., Publ.*
- Ann. Rep. Dep. Mines, Victoria.* See *Victoria, Dep. Mines.*
- Ann. Rep. Geol. Comm. Cape Colony.* Annual Report of the Geological Commission, Cape Colony. Cape Town.
- Ann. Rep. Geol. Surv. Canada.* Annual Report of the Geological Survey of Canada. Ottawa. See also *Canada, Dep. Mines.*
- Ann. Rep. Geol. Surv. Gt. Brit.* Annual Report of the Geological Survey of Great Britain. London.
- Ann. Rep. Geol. Surv. Natal.* Annual Report of the Geological Survey of Natal. Pietermaritzburg.
- Ann. Rep. Geol. Surv. New Jersey.* Annual Report of the Geological Survey of New Jersey. Trenton (N.J.).
- Ann. Rep. Geol. Surv. N.Z.* Annual Report of the Geological Survey of New Zealand. Wellington (N.Z.).
- Ann. Rep. Geol. Surv. Queensl.* Annual Progress Report of the Geological Survey of Queensland. Brisbane.
- Ann. Rep. Geol. Surv. Transvaal.* Annual Report of the Geological Survey of the Transvaal. Pretoria.
- Ann. Rep. Geol. Surv. W. Austr.* Annual Progress Report of the Geological Survey. Perth (W. Austr.).
- Ann. Rep. Indian Mus. Calcutta.* Annual Report of the Indian Museum. Calcutta.
- Ann. Rep. Leeds Phil. Soc.* Annual Report of the Leeds Philosophical and Literary Society. Leeds.
- Ann. Rep. Mus. Comp. Zool.* Annual Report of the Assistant in Charge of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
- Ann. Rep. Nat. Hist. Surv. Minn.* Annual Report of the Geological and Natural History Survey of Minnesota. Minneapolis (Minn.).
- Ann. Rep. N.Y. State Mus.* Annual Report of the New York State Museum. Albany. See also *N.Y. State Mus.*
- Ann. Rep. Rhodesia Chamber of Mines, Bulawayo.* Annual Report of the Rhodesia Chamber of Mines. Bulawayo (Rhodesia).
- Ann. Rep. Rhodesia Mus.* Annual Report of the Rhodesia Museum. Bulawayo.
- Ann. Rep. Roy. Cornwall Polytechnic Soc.* Annual Report of the Royal Cornwall Polytechnic Society. Falmouth.
- Ann. Rep. Sec. Mines, Victoria.* Annual Report of the Secretary of Mines, Victoria. Melbourne.
- Ann. Rep. Smiths. Inst. Rep. U.S. Nat. Mus.* Annual Report of the Board of Regents of the Smithsonian Institution. Report of the United States National Museum. Washington (D.C.).
- Ann. Rep. State Geol. Vermont.* Annual Report of the State Geologist of Vermont. Montpelier (Vt.).
- Ann. Rep. U.S. Geol. Surv.* Annual Report of the United States Geological Survey. Washington (D.C.).
- Ann. Rep. Washington Geol. Surv.* Annual Report of the Washington Geological Survey. Olympia (Wash.).
- Ann. Rep. Wellington Coll. Nat. Sci. Soc.* Annual Report of the Wellington College Natural Science Society. Wellington College.
- Ann. Rep. Yorks. Phil. Soc.* Annual Report of the Yorkshire Philosophical Society. York.
- Ann. S. Afr. Mus., Cape Town.* Annals of the South African Museum. Cape Town.
- Ann. sci. Acad. polyt. Porto.* Annaes scientificos da Academia polytechnica do Porto. Coimbra.
- Ann. Sci. nat. (Zool. & Paléont.).* Annales des Sciences naturelles: Zoologie et Paléontologie. Paris.
- Ann. Sci. Univ. Jassy.* Annales scientifiques de l'Université de Jassy. Jassy.
- Ann. Soc. géol. Belg., Liège.* Annales de la Société géologique de Belgique. Liège.
- Ann. Soc. géol. Nord.* Annales de la Société géologique du Nord. Lille.
- Ann. Soc. R. zool. & malac. Belg.* Annales de la Société Royale zoologique et malacologique de Belgique. Brussels.
- Ann. Univ. toscane.* Annali delle Università toscane. Pisa.

- Anz. k. Akad. Wissensch. Wien.* Anzeiger der kaiserlichen Akademie der Wissenschaften. Vienna.
- Arch. f. Anthr. & Geol. Schleswig-Holsteins.* Archiv für Anthropologie und Geologie Schleswig-Holsteins und der benachbarten Gebiete. Kiel.
- Arch. Naturk. Liv- Ehst- u. Kurlands, Dorpat.* Archiv für die Naturkunde Liv- Ehst- und Kurlands. Naturforscher-Gesellschaft. Dorpat (Jurjew).
- Arch. naturw. Landesd. Böhmen.* Archiv der naturwissenschaftlichen Landesdurchforschung von Böhmen. Prague.
- Arch. néerland. Sci.* Archives des Sciences exactes et naturelles, publiées par la Société hollandaise des Sciences à Harlem. The Hague.
- Ark. f. (Bot.; Kemi Min. & Geol.; or Zool.) K. svenska Vet.-Akad.* Arkiv för Botanik (&c.) utgifvet af K. svenska Vetenskaps-Akademien. Stockholm.
- Athenæum.* Athenæum. London.
- Atti R. Acc. Lincei, Rendic.* Atti della Reale Accademia dei Lincei, Rendiconti. Rome.
- Atti R. Acc. Sci. Napoli.* Atti della Reale Accademia delle Scienze fisiche e matematiche. Naples.
- Atti R. Acc. Sci. Padova.* Atti e Memorie della Reale Accademia di Scienze, Lettere ed Arti in Padova. Padua.
- Atti R. Acc. Sci. Torino.* Atti della Reale Accademia delle Scienze di Torino. Turin.
- Atti R. Univ. Genova.* Atti della Reale Università di Genova. Genoa.
- Atti Soc. ital. Progr. Sci.* Atti della Società italiana per il Progresso delle Scienze. Rome.
- Atti Soc. tosc. Sci. nat.* Atti della Società toscana di Scienze naturali. Pisa.
- Augustana Library Publ.* Augustana Library Publication. Rock Island (Ill.).
- Beitr. geol. Schweiz.* Beiträge zur Geologie der Schweiz. (Schweizerische geotechnische Kommission.) Berne.
- Beitr. Geophys. Leipzig.* Beiträge zur Geophysik. Leipzig.
- Beitr. naturk. Preussens, K. phys.-ökon. Gesellsch. Königsberg.* Beiträge zur Naturkunde Preussens. Königliche physikalisch-ökonomische Gesellschaft. Königsberg.
- Beitr. Paläont. (Ester.-Ung.)* Beiträge zur Paläontologie und Geologie Oesterreich-Ungarns und des Orients. Vienna.
- Ber. k.-sächs. Gesellsch. Wissensch. Leipzig.* Bericht der königlich sächsischen Gesellschaft der Wissenschaften. Leipzig.
- Ber. naturf. Gesellsch., Freiburg i. B.* Berichte der naturforschenden Gesellschaft. Freiburg i. B.
- Ber. oberhess. Gesellsch. Nat.- Heilk.* Bericht der oberhessischen Gesellschaft für Natur- und Heilkunde. Giessen.
- Ber. oberrhein. geol. Ver.* Bericht über die Versammlungen des oberrheinischen geologischen Vereins. Karlsruhe.
- Ber. Senckenb. naturf. Gesellsch.* Bericht der Senckenbergischen naturforschenden Gesellschaft. Frankfurt-on-the-Main.
- Berg- hütt. Jahrb. Wien.* Berg- und hüttenmännisches Jahrbuch der kaiserlich-königlichen Bergakademien zu Leoben und Pöbbram und der königlich ungarischen Bergakademie zu Schemnitz. Vienna.
- Bergens Mus. Aarb.* Bergens Museums Aarbog (or Aarberetning). Bergen.
- Bergw. Zeitfr. Berlin.* Bergwirtschaftliche Zeitfragen. Berlin.
- Bibl. geol., Serv. géol. Belg.* Bibliographica geologica, Service géologique de Belgique. Brussels.
- Bihang k. svenska Vet.-Akad. Handl.* Bihang till kongliga svenska Vetenskaps-Akademien Handlingar. Stockholm.
- Bol. Acad. Nac. Córdoba.* Boletín de la Academia Nacional de Ciencias en Córdoba. Buenos Aires.
- Bol. Com. Mapa geol. España.* Boletín de la Comisión del Mapa geológico de España. Madrid.
- Bol. Comm. geogr. e geol. S. Paulo.* Boletim da Comissão geographica e geologica do Estado de São Paulo. São Paulo.
- Bol. Ing. Minas, Perú.* Boletín del Cuerpo de Ingenieros de Minas del Perú. Lima.
- Bol. Inst. geogr. Argent.* Boletín del Instituto geográfico Argentino. Buenos Aires.
- Bol. Inst. geol. México.* Boletín del Instituto geológico de México. Mexico.
- Boll. R. Com. geol. Ital.* Bollettino del Reale Comitato geologico d'Italia. Rome.
- Bol. Soc. geogr. Lima.* Boletín de la Sociedad geográfica de Lima. Lima.
- Bol. Soc. Geogr. Lisboa.* Boletim da Sociedade de Geographia de Lisboa. Lisbon.
- Bol. Soc. Nac. Minería, Santiago.* Boletín de la Sociedad Nacional de Minería. Santiago de Chile.
- Boll. Soc. geol. ital.* Bollettino della Società geologica italiana. Rome.
- Brit. Assoc. Adv. Sci., Circulars Seismolog. Committee.* British Association for the Advancement of Science. Circulars of the Seismological Committee. London.

- British Columbia, Dep. Mines.* British Columbia: Department of Mines. Victoria (B.C.).
- Bull. Acad. Imp. Sci. St. Pétersb.* Bulletin de l'Académie Impériale des Sciences. St. Petersburg.
- Bull. Acad. Roy. Belg.* Bulletins de l'Académie Royale des Sciences, des Lettres et des Beaux-Arts de Belgique. Brussels.
- Bull. Am. Mus. Nat. Hist., N.Y.* Bulletin of the American Museum of Natural History. New York.
- Bull. Assoc. franç. Av. Sci.* Bulletin de l'Association française pour l'Avancement des Sciences. Paris.
- Bull. Buffalo Soc. Nat. Sci.* Bulletin of the Buffalo Society of Natural Sciences. Buffalo (N.J.).
- Bull. Bur. Mines, B.C.* Bulletin of the Provincial Bureau of Mines, British Columbia. Victoria (B.C.).
- Bull. Bur. Mines, Canada.* Bulletin of the Bureau of Mines, Canada. Ottawa.
- Bull. Cal. State Mining Bur.* Bulletin of the Californian State Mining Bureau. San Francisco.
- Bull. Chicago Acad. Geol. Surv.* Bulletin of the Chicago Academy of Science, Geological and Natural History Survey. Chicago (Ill.).
- Bull. Com. géol. Russie.* Bulletins du Comité géologique. St. Petersburg.
- Bull. Comm. géol. Finlande.* Bulletin de la Commission géologique de Finlande. Helsingfors.
- Bull. Conn. Geol. & Nat. Hist. Surv.* Bulletin of the Connecticut State Geological and Natural History Survey. Hartford (Conn.).
- Bull. Geol. Inst. Univ. Upsala.* Bulletin of the Geological Institution of the University of Upsala. Upsala.
- Bull. Geol. Soc. Am.* Bulletin of the Geological Society of America. Rochester (N.Y.).
- Bull. Geol. Surv. Alabama.* Bulletin of the Geological Survey of Alabama. University & Montgomery (Ala.).
- Bull. Geol. Surv. Georgia.* Bulletin of the Geological Survey of Georgia. Atlanta (Ga.). See also *Georgia, Geol. Surv.*
- Bull. Geol. Surv. Ohio.* Bulletin of the Geological Survey of Ohio. Columbus (Ohio).
- Bull. Geol. Surv. Queensl.* Bulletin of the Geological Survey of Queensland (Department of Mines). Brisbane.
- Bull. Geol. Surv. Victoria.* Bulletin of the Geological Survey of Victoria. Melbourne.
- Bull. Geol. Surv. W. Austr.* Bulletin of the Geological Survey of Western Australia. Perth (W. Austr.).
- Bull. Geol. Univ. Cal.* Bulletin of the Department of Geology, University of California. Berkeley (Cal.).
- Bull. Imp. Earthq. Comm. Tokyo.* Bulletin of the Imperial Earthquake Commission. Tokyo.
- Bull. Imp. Inst.* Bulletin of the Imperial Institute. London.
- Bull. Intern. Acad. Sci. Cracovie.* Bulletin International de l'Académie des Sciences. Cracow.
- Bull. Ky. Geol. Surv.* Bulletin of the Kentucky Geological Survey. Lexington (Ky.).
- Bull. Mus. Comp. Zool.* Bulletin of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
- Bull. Mus. Hist. nat. Paris.* Bulletin du Muséum d'Histoire naturelle. Paris.
- Bull. Mysore Geol. Dep.* Bulletin of the Mysore Geological Department. Bangalore.
- Bull. Nat. Hist. Soc. New Brunswick.* Bulletin of the Natural History Society of New Brunswick. St. John (N.B.).
- Bull. N.Y. State Mus.* Bulletin of the New York State Museum. Albany (N.Y.).
- Bull. N.Z. Geol. Surv.* Bulletin of the New Zealand Geological Survey. Wellington (N.Z.).
- Bull. Phil. Soc. Wash.* Bulletin of the Philosophical Society. Washington (D.C.).
- Bull. Soc. belge Géol., Brux.* Bulletin de la Société belge de Géologie, de Paléontologie et d'Hydrologie. Brussels.
- Bull. Soc. franç. Min.* Bulletin de la Société française de Minéralogie. Paris.
- Bull. Soc. fribourg. Sci. nat.* Bulletin de la Société fribourgeoise des Sciences naturelles. Fribourg.
- Bull. Soc. géol. France.* Bulletin de la Société géologique de France. Paris.
- Bull. Soc. géol. Norm.* Bulletin de la Société géologique de Normandie. Havre.
- Bull. Soc. Hist. nat. Savoie.* Bulletin de la Société d'Histoire naturelle de Savoie. Chambéry.
- Bull. Soc. Hist. nat. Toulouse.* Bulletin de la Société d'Histoire naturelle de Toulouse. Toulouse.

- Bull. Soc. Imp. Nat. Moscou.* Bulletin de la Société Impériale des Naturalistes de Moscou. Moscow.
- Bull. Soc. Linn. Norm.* Bulletin de la Société Linnéenne de Normandie. Caen.
- Bull. Soc. oural. Sci. nat.* Bulletin de la Société ouralienne d'Amateurs des Sciences naturelles. Ekaterinburg.
- Bull. Soc. portugaise Sci. nat.* Bulletin de la Société portugaise des Sciences naturelles. Lisbon.
- Bull. Soc. R. malac. Belg.* See *Ann. Soc. R. zool. & malac. Belg.*
- Bull. Soc. Sci. et méd. de l'Ouest, Rennes.* Bulletin de la Société scientifique et médicale de l'Ouest. Rennes.
- Bull. Soc. Spéleol. Paris.* See *Spelunca.*
- Bull. Soc. vaud. Sci. nat.* Bulletin de la Société vaudoise des Sciences naturelles. Lausanne.
- Bull. U.S. Geol. Surv.* Bulletin of the United States Geological Survey. Washington.
- Bull. U.S. Nat. Mus.* Bulletin of the United States National Museum. Washington (D.C.).
- Bull. Univ. Cal.* Bulletin of the University of California. Berkeley (Cal.).
- Bull. Univ. Kansas.* See *Sci. Bull. Univ. Kansas.*
- Bull. Univ. Oregon.* Bulletin of the University of Oregon. Eugen (Or.).
- Bull. Univ. Wisc.* Bulletin of the University of Wisconsin. Madison (Wisc.).
- Bull. Wisc. Geol. & Nat. Hist. Surv.* Bulletin of the Wisconsin Geological and Natural History Survey. Madison (Wis.).
- Canad. Rec. Sci.* Canadian Record of Science. (Natural History Society of Montreal.) Montreal.
- Canada, Dep. Mines.* Canada: Department of Mines. Ottawa.
- Carnegie Inst. Wash., Publ.* Carnegie Institution, Washington. Publications. Washington (D.C.).
- Centralbl. f. Min.* Centralblatt für Mineralogie, Geologie und Paläontologie. Stuttgart.
- Chem. News.* Chemical News. London.
- Cold Spring Harbor Monogr.* Cold Spring Harbor Monographs. Brooklyn (N.Y.).
- Coll. Guard.* Colliery Guardian. London.
- Colo. Coll. Publ.* Colorado College Publications. Colorado Springs (Colo.).
- Com. Mus. Nac. Buenos Aires.* Comunicaciones del Museo Nacional de Buenos Aires. Buenos Aires.
- Comm. Commiss. Serv. geol. Portugal.* Comunicações da Comissão do Serviço geológico de Portugal. Lisbon.
- Comm. geogr. e geol. S. Paulo.* Comissão geographica e geologica de São Paulo. São Paulo.
- C. R. Acad. Sci. Paris.* Comptes-rendus hebdomadaires des Séances de l'Académie des Sciences. Paris.
- C. R. Assoc. franç. Av. Sci.* Comptes-rendus de l'Association française pour l'Avancement des Sciences. Paris.
- C. R. Congrès géol. internat.* Comptes-rendus du Congrès géologique international. Vienna.
- C. R. Soc. helv. Sci. nat.* Compte-rendu des Travaux de la Société helvétique des Sciences naturelles. Geneva.
- Dan. geol. Undersøg.* Danmarks geologiska Undersøgelse. Copenhagen.
- Denkschr. k. Akad. Wissensch. Wien.* Denkschriften der kaiserlichen Akademie der Wissenschaften: Mathematisch-naturwissenschaftliche Classe. Vienna.
- Eclogæ Geol. Helv.* Eclogæ Geologicæ Helvetiæ. Lausanne.
- Econ. Geol.* Economic Geology. Lancaster (Pa.).
- Econ. Papers, U.S. Geol. Surv.* Economic Papers, United States Geological Survey. Washington.
- Econ. Proc. R. Dublin Soc.* Economic Proceedings of the Royal Dublin Society. Dublin.
- Egypt. Surv. Dep.* Egypt. Survey Department & Geological Survey. Cairo.
- Erläut. geol. Karte Baden.* Erläuterungen zur geologischen Specialkarte des Grossherzogthums Baden. Heidelberg.
- Essex Nat.* Essex Naturalist, being the Journal of the Essex Field-Club. Stratford.
- Expl. géol. Rég. aurif. Sibérie.* Explorations géologiques dans les Régions aurifères de la Sibérie. St. Petersburg.
- Fennia.* Fennia. Bulletin de la Société de Géographie de Finlande. Helsingfors.
- Field Columbian Mus.* Field Columbian Museum Publications. Chicago (Ill.).
- Földt. Közl.* Földtani Közlöny. [Geological Magazine.] Budapest.
- Gen. Rep. Geol. Surv. India.* General Report on the Work carried on by the Geological Survey of India. Calcutta.

- Geogn. Jahresh.*, München. Geognostische Jahreshefte. Munich.
Geogr. Journ. Geographical Journal (Royal Geographical Society). London.
Geol. & Nat. Hist. Surv. Minn. Geological and Natural History Survey of Minnesota. St. Paul (Minn.).
Geol. Fören. Stockh. Förh. Geologiska Föreningens i Stockholm Förhandlingar. Stockholm.
Geol. Karte Baden. Geologische Specialkarte des Grossherzogthums Baden. (Grossherzoglich badische geologische Landesanstalt.) Heidelberg.
Geol. Mag. Geological Magazine. London.
Geol. Surv. Canada. Contr. Canad. Palæont. Geological Survey of Canada. Contributions to Canadian Palæontology. Ottawa.
Geol. Surv. Mich. Rep. Geological Survey of Michigan. Reports. Lansing (Mich.).
Geol. Surv. Queensl., Publ. Geological Survey of Queensland: Publications. Brisbane. See also *Ann. Rep. Dep. Mines, Queensl.*
Geol. u. Palæont. Abh., Jena. Geologische und Palæontologische Abhandlungen. Jena.
Geol. Zentralbl. Geologisches Zentralblatt. Leipzig.
Georgia, Geol. Surv. Georgia Geological Survey. Atlanta (Ga.).
Giorn. Geol. prat., Perugia. Giornale di Geologia pratica. Perugia.
'Glasnik' Soc. Hist. nat. Croatica. Journal of the Natural History Society of Croatia. Agram.
Great Britain & Ireland. Home Office. Mines & Quarries. General Report and Statistics. London.
Hist. Berwicks. Nat. Club. History of the Berwickshire Naturalists' Club. Alnwick.
Hull Mus. Publ. Hull Museum Publications. Hull.
Illinois, Geol. Surv. Illinois Geological Survey. Urbana (Ill.).
Indian Engin. Indian Engineering. Calcutta.
Internat. Cat. Sci. Lit. International Catalogue of Scientific Literature. London.
Iowa Geol. Surv. Iowa Geological Survey. Des Moines (Iowa).
Irish Nat. Irish Naturalist. Dublin.
Jaarb. Mijnw. Ned. O.-Ind. Jaarboek van het Mijnwezen in Nederlandsch Oost-Indië. Batavia.
Jahrb. f. Berg- u. Hüttenw. Sachsen. Jahrbuch für das Berg- und Hüttenwesen im Königreiche Sachsen. Freiberg.
Jahrb. k.-k. geol. Reichsanst. Jahrbuch der kaiserlich königlichen geologischen Reichsanstalt. Vienna.
Jahrb. k.-preuss. geol. Landesanst. Jahrbuch der königlich preussischen geologischen Landesanstalt. Berlin.
Jahrb. k.-ung. geol. Anst. Jahrbuch der königlich ungarischen geologischen Anstalt. Budapest.
Jahrb. nassauisch. Ver. f. Naturk. Jahrbücher des nassauischen Vereins für Naturkunde. Wiesbaden.
Jahrb. Schw.-Alpenclub. Jahrbuch des Schweizer-Alpenclubs. Bern.
Jahresb. k.-ung. geol. Anst. Jahresbericht der königlich ungarischen geologischen Anstalt. Budapest.
Jahresb. naturh. Gesellsch. Hannover. Jahresbericht der naturhistorischen Gesellschaft zu Hannover. Hanover.
Jahresb. naturh. Gesellsch. Nürnberg. Jahresbericht der naturhistorischen Gesellschaft. Nürnberg.
Jahresb. Ver. Naturw. Braunschweig. Jahresbericht des Vereins für Naturwissenschaft zu Braunschweig. Brunswick.
Jahresh. Ver. Naturk. Württ. Jahreshefte des Vereins für vaterländische Naturkunde in Württemberg. Stuttgart.
Journ. Acad. Nat. Sci. Philad. Journal of the Academy of Natural Sciences. Philadelphia.
Journ. Asiat. Soc. Bengal. Journal and Proceedings of the Asiatic Society of Bengal. Calcutta.
Journ. Bombay Branch R. Asiat. Soc. Journal of the Bombay Branch of the Royal Asiatic Society. Bombay.
Journ. Canad. Mining Inst. Journal of the Canadian Mining Institute. Ottawa.
Journ. Ceylon Branch R. Asiat. Soc. Journal of the Ceylon Branch of the Royal Asiatic Society. Colombo.
Journ. Chem. Soc. Journal of the Chemical Society. London.
Journ. China Branch R. Asiat. Soc. Journal of the China Branch of the Royal Asiatic Society. Shanghai.
Journ. Cinc. Soc. Nat. Hist. Journal of the Cincinnati Society of Natural History. Cincinnati (Ohio).
Journ. Coll. Sci. Tokyo. Journal of the College of Science, Imperial University. Tokyo.

- Journ. Conch., Paris.* Journal de Conchyliologie. Paris.
- Journ. East India Assoc.* Journal of the East India Association. London.
- Journ. Geol., Chicago.* Journal of Geology. Chicago (Ill.).
- Journ. Iron & Steel Inst.* Journal of the Iron and Steel Institute. London.
- Journ. Linn. Soc.* Journal of the Linnean Society. London.
- Journ. Northants Nat. Hist. Soc.* Journal of the Northamptonshire Natural History Society and Field-Club. Northampton.
- Journ. R. Agric. Soc.* Journal of the Royal Agricultural Society. London.
- Journ. R. Inst. Cornwall.* Journal of the Royal Institution of Cornwall. Truro.
- Journ. R. Micr. Soc.* Journal of the Royal Microscopical Society. London.
- Journ. Roy. Soc. N.S.W.* Journal and Proceedings of the Royal Society of New South Wales. Sydney.
- Journ. Soc. Arts.* Journal of the Royal Society of Arts. London.
- Journ. Vict. Inst. London.* Journal of the Transactions of the Victoria Institute. London.
- Journ. & Proc. Hamilton Sci. Assoc. (Canada).* Journal and Proceedings of the Hamilton Scientific Association. Hamilton (Canada).
- K. danske Vidensk.-Selsk. Afh.* Kongelige danske Videnskabernes-Selskabs naturvidenskabelig og matematisk Afhandling. Copenhagen.
- K. danske Vidensk. Selsk. Skrift.* Kongelige danske Videnskabernes Selskabs Skrifter. Copenhagen.
- K. svenska Vet.-Akad. Årsbok.* Kongliga svenska Vetenskaps-Akademiens Årsbok. Stockholm.
- K. svenska Vet.-Akad. Handl.* Kongliga svenska Vetenskaps-Akademiens Handlingar. Stockholm.
- Kansas Univ. Sci. Bull.* See *Sci. Bull. Univ. Kansas.*
- Kentucky Geol. Surv.* Kentucky Geological Survey. Report of Progress. Lexington (Ky.). (See also *Bull. Ky. Geol. Surv.*)
- Knowledge.* Knowledge. London.
- Lond. Edinb. Dubl. Phil. Mag.* London, Edinburgh, and Dublin Philosophical Magazine and Journal of Science. London.
- Magy. Kir. Földtani Intézet.* See *Jahrb. k.-ung. geol. Anst.*
- Maryland Geol. Surv.* Maryland Geological Survey. Baltimore (Md.).
- Matér. Carte géol. Suisse.* Matériaux pour la Carte géologique de la Suisse. Commission géologique. Berne.
- Mater. Geol. Russ.* Materialien zur Geologie Russlands. Herausgegeben von der kaiserlichen mineralogischen Gesellschaft. St. Petersburg.
- Meddel. dansk geol. Foren.* Meddelelser fra dansk geologisk Forening. Copenhagen.
- Meddel. geogr. Fören. Finland.* Meddelanden af geografiska Föreningen i Finland. Helsingfors.
- Meddel. Grönland.* Meddelelser om Grönland, udgivne af Commissionen for Ledelsen af de Geologiske og Geographiske Undersøgelser i Grönland. Copenhagen.
- Meddel. Upsala Univ. Min.-geol. Inst.* Meddelanden från Upsala Universitetets Mineralogisk-geologiska Institut. Stockholm.
- Mém. Acad. Imp. Sci. St. Pétersb.* Mémoires de l'Académie Impériale des Sciences. St. Petersburg.
- Mém. Acad. Roy. Belg.* Mémoires de l'Académie Royale de Belgique. Brussels.
- Mém. Acad. Sci. Dijon.* Mémoires de l'Académie des Sciences, Arts et Belles-Lettres de Dijon.
- Mém. Acad. Stanislas.* Mémoires de l'Académie de Stanislas. Nancy.
- Mem. Am. Acad. Arts & Sci.* Memoirs of the American Academy of Arts and Sciences. Cambridge (Mass.).
- Mem. Am. Mus. Nat. Hist., N.Y.* Memoirs of the American Museum of Natural History. New York.
- Mem. Asiat. Soc. Bengal.* Memoirs of the Asiatic Society of Bengal. Calcutta.
- Mem. Carnegie Mus., Pittsb.* Memoirs of the Carnegie Museum. Pittsburg (Pa.).
- Mem. Carta geol. Ital.* Memorie descrittive della Carta geologica d'Italia. (R. Ufficio geologico.) Rome.
- Mém. Com. géol. Russie.* Mémoires du Comité géologique. St. Petersburg.
- Mem. Geol. Surv. England & Wales.* Memoirs of the Geological Survey of England and Wales. London.
- Mem. Geol. Surv. India. Palæont. Indica.* Memoirs of the Geological Survey of India. Palæontographica Indica. Calcutta.
- Mem. Geol. Surv. Ireland.* Memoirs of the Geological Survey of Ireland. Dublin.
- Mem. Geol. Surv. N.S.W.* Memoirs of the Geological Survey of New South Wales. Sydney.
- Mem. Geol. Surv. N.Y.* Memoirs of the Geological Survey of the State of New York. State Museum. University of the State of New York. Albany (N.Y.).

- Mem. Geol. Surv. Scotland.* Memoirs of the Geological Survey of Scotland. Edinburgh.
- Mem. Geol. Surv. Transvaal.* Memoirs of the Geological Survey of the Transvaal. Pretoria.
- Mem. Geol. Surv. U.K.* Memoirs of the Geological Survey of the United Kingdom. London, &c.
- Mem. Geol. Surv. Victoria.* Memoirs of the Geological Survey of Victoria. Melbourne.
- Mem. Indian Mus. Calcutta.* Memoirs of the Indian Museum. Calcutta.
- Mem. Manch. Lit. Phil. Soc.* Memoirs and Proceedings of the Manchester Literary and Philosophical Society. Manchester.
- Mem. Mus. Comp. Zool.* Memoirs of the Museum of Comparative Zoology at Harvard College. Cambridge (Mass.).
- Mém. Mus. R. Hist. nat. Belg.* Mémoires du Musée Royal d'Histoire naturelle de Belgique. Brussels.
- Mem. Mysore Geol. Dep.* Memoirs of the Mysore Geological Department. Bangalore.
- Mem. Nat. Mus., Melbourne.* Memoirs of the National Museum. Melbourne.
- Mem. N.Y. Acad. Sci.* Memoirs of the New York Academy of Sciences. New York.
- Mem. R. Acad. Cienc., Madrid.* Memorias de la Real Academia de Ciencias exactas, físicas y naturales. Madrid.
- Mem. R. Acc. Lincei.* Memorie della Reale Accademia dei Lincei. Rome.
- Mem. R. Acc. Sci. Torino.* Memorie della Reale Accademia delle Scienze. Turin.
- Mem. R. Astron. Soc.* Memoirs of the Royal Astronomical Society. London.
- Mem. R. Ist. lomb.* Memorie del Reale Istituto lombardo di Scienze e Lettere. Milan.
- Mem. R. Soc. S. Austr.* Memoirs of the Royal Society of South Australia. Adelaide.
- Mem. Soc. cient. 'Ant. Alzate.'* Memorias y Revista de la Sociedad científica 'Antonio Alzate.' Mexico.
- Mém. Soc. fribourg. Sci. nat., Géol. et Géogr.* Mémoires de la Société fribourgeoise des Sciences naturelles. Fribourg.
- Mém. Soc. géol. France (Paléont.).* Mémoires de la Société géologique de France. Paléontologie. Paris.
- Mém. Soc. Linn. Norm.* Mémoires de la Société Linnéenne de Normandie. Caen.
- Mém. Soc. Nat. Kiev.* Mémoires de la Société des Naturalistes. Kiev.
- Mém. Soc. paléont. suisse.* Mémoires de la Société paléontologique suisse. Geneva, &c.
- Mém. Soc. Phys. & Hist. nat. Genève.* Mémoires de la Société de Physique et d'Histoire naturelle de Genève. Geneva.
- Mém. Soc. R. malac. Belg.* See *Ann. Soc. R. zool. & malac. Belg.*
- Mém. Soc. Roy. Sci. Liège.* Mémoires de la Société Royale des Sciences. Liège.
- Mém. Soc. Spéléol., Paris.* See *Spelunca.*
- Min. Mag.* The Mineralogical Magazine and Journal of the Mineralogical Society. London.
- Min. petr. Mitth.* Mineralogische und petrographische Mittheilungen. Vienna.
- Mines & Minerals, Scranton.* Mines and Minerals. Scranton (Pa.).
- Mining Journ.* Mining Journal. London.
- Minutes of Proc. Inst. C.E.* Minutes of Proceedings of the Institution of Civil Engineers. London.
- Missouri Bur. Geol. & Mines.* Missouri Bureau of Geology and Mines. Jefferson City (Mo.).
- Mitth. badisch. geol. Landesanst.* Mittheilungen der grossherzoglich badischen geologischen Landesanstalt. Heidelberg.
- Mitth. Erdbeben-Komm. k. Akad. Wissensch., Wien.* Mittheilungen der Erdbeben-Kommission der kaiserlichen Akademie der Wissenschaften, Wien. Vienna.
- Mitth. geol. Gesellsch. Wien.* Mittheilungen der geologischen Gesellschaft in Wien. Vienna.
- Mitth. geol. Landesanst. Elsass-Lothr.* Mittheilungen der geologischen Landesanstalt von Elsass-Lothringen. Strasburg.
- Mitth. Jahrb. k.-ung. geol. Anst.* Mittheilungen aus dem Jahrbuche der königlich ungarischen geologischen Anstalt. Budapest.
- Mitth. Min. Inst. Kiel.* Mittheilungen aus dem Mineralogischen Institut der Universität. Kiel.
- Mitth. naturf. Gesellsch. Bern.* Mittheilungen der naturforschenden Gesellschaft. Berne.
- Mitth. nat. Ver. Steiermark.* Mittheilungen des naturwissenschaftlichen Vereins für Steiermark. Graz.
- Mitth. Ver. Erdk. Dresden.* Mittheilungen des Vereins für Erdkunde. Dresden.
- Monatsb. deutsch. geol. Gesellsch.* Monatsberichte der deutschen geologischen Gesellschaft. Berlin. See also *Zeitschr.*

- Monogr. Palæont. Soc.* Monographs of the Palæontographical Society. London.
- Monogr. Ray Soc.* Monographs of the Ray Society. London.
- Monogr. U.S. Geol. Surv.* Monographs of the United States Geological Survey. Washington (D.C.).
- Mus. Lundii Afh.* E Museo Lundii. Afhandlinger. Copenhagen.
- Mysore Geol. Dep.* Mysore Geological Department. Bangalore.
- Natal Rep. Mining.* Natal Report on the Mining Industry of Natal. Pietermaritzburg.
- Naturalist, Hull.* The Naturalist. Hull.
- Nature.* Nature. London.
- Naturen, Bergen.* Naturen. Bergen.
- Nat. Verh. Holland. Maat. Wet. Haarlem.* Natuurkundige Verhandelingen van de Hollandsche Maatschappij der Wetenschappen. Haarlem.
- Neue Denkschr. schweiz. Gesellsch. Naturw.* Neue Denkschriften der allgemeinen schweizerischen Gesellschaft für die gesammten Naturwissenschaften. Basel, &c.
- N. J. f. Min.* Neues Jahrbuch für Mineralogie, Geologie und Paläontologie. Stuttgart.
- N.S.W. Dep. Mines.* New South Wales Department of Mines. Sydney.
- Norsk geol. Tidsskr.* Norsk geologisk Tidsskrift, udgivet af Norsk geologisk Forening. Christiania.
- Notice expl. Carte géol. Suisse.* Notice explicative de la Carte géologique de la Suisse. Berne.
- Notizbl. Ver. f. Erdk. Darmstadt.* Notizblatt des Vereins für Erdkunde und der grossherzoglich hessischen geologischen Landesanstalt. Darmstadt.
- Nouv. Arch. Mus. Hist. nat. Paris.* Nouvelles Archives du Muséum d'Histoire naturelle. Paris.
- Nouv. Mém. Soc. Imp. nat. Moscou.* Nouveaux Mémoires de la Société Impériale des Naturalistes. Moscow.
- Nova Acta Acad. Cæs. Leop.-Car.* Nova Acta Academiæ Cæsareæ Leopoldino-Carolinæ Germanicæ Naturæ Curiosorum. Halle. See also *Abh. k. Leop.-Car. deutsch. Akad. Naturf.*
- N.Y. State Mus.* New York State Museum. Albany (N.Y.).
- Nyt Magazin.* Nyt Magazin for Naturvidenskaberne. Christiania.
- Occ. Papers Boston Nat. Hist. Soc.* Occasional Papers of the Boston Natural History Society. Boston (Mass.).
- Öfvers. K. Vet.-Akad. Förh.* Öfversigt af Kongliga Vetenskaps-Akademien's Förhandlingar. Stockholm.
- Ottawa Nat.* Ottawa Naturalist. Ottawa.
- Overs. K. danske Vidensk.-Selsk. Forh.* Oversigt over det Kongelige danske Videnskabernes-Selskabs Forhandlingar. Copenhagen.
- Palæont. Abh. Jena.* Palæontologische Abhandlungen. Jena.
- Palæont. Univ.* Palæontologia Universalis. 8vo. Paris.
- Palæontographica.* Palæontographica. Stuttgart.
- Palæontographica italica.* Palæontographica italica. Pisa.
- Papers & Proc. Roy. Soc. Tasm.* Papers and Proceedings of the Royal Society of Tasmania. Hobart.
- Papers & Rep. Min. & Mining, N.Z.* Papers and Reports relating to Minerals and Mining, N.Z. Wellington (N.Z.).
- Parerg. Inst. geol. Mex.* Parergones del Instituto geológico de México. Mexico.
- Perak Gov. Gaz.* Perak Government Gazette. Taiping.
- Peterm. Mitth.* Petermann's Mittheilungen. Gotha.
- Phil. Trans. Roy. Soc.* Philosophical Transactions of the Royal Society. London.
- Philippine Is., Dep. Inter., Bur. Sci.* Philippine Is., Department of the Interior. Bureau of Science. Manila.
- Photogr. Journ.* Photographic Journal. (Royal Photographic Society.) London.
- Princeton Univ. Rep.* Princeton University. Reports of Expeditions. Princeton (N.J.).
- Proc. Acad. Nat. Sci. Philad.* Proceedings of the Academy of Natural Sciences. Philadelphia (Pa.).
- Proc. Am. Acad. Arts & Sci.* Proceedings of the American Academy of Arts and Sciences. Boston (Mass.).
- Proc. Am. Phil. Soc.* Proceedings of the American Philosophical Society. Philadelphia (Pa.).
- Proc. Asiatic Soc. Bengal.* Proceedings of the Asiatic Society of Bengal. Calcutta.
- Proc. Austral. Inst. M. E.* Proceedings of the Australasian Institute of Mining Engineers. Melbourne (Vict.).
- Proc. Bath Nat. Hist. F.-C.* Proceedings of the Bath Natural History and Antiquarian Field-Club. Bath.

- Proc. Belfast Nat. F.-C.* Proceedings of the Belfast Naturalists' Field-Club. Belfast.
- Proc. Biol. Soc. Washington.* Proceedings of the Biological Society of Washington. Washington (D.C.).
- Proc. Boston Soc. Nat. Hist.* Proceedings of the Boston Society of Natural History. Boston (Mass.).
- Proc. Bristol Nat. Soc.* Proceedings of the Bristol Naturalists' Society. Bristol.
- Proc. Cal. Acad. Sci.* Proceedings of the California Academy of Sciences. San Francisco (Cal.).
- Proc. Cambridge Phil. Soc.* Proceedings of the Cambridge Philosophical Society. Cambridge.
- Proc. Canad. Inst.* Proceedings of the Canadian Institute. Toronto.
- Proc. Chem. Soc.* Proceedings of the Chemical Society. London.
- Proc. Colo. Sci. Soc.* Proceedings of the Colorado Scientific Society. Denver (Colo.).
- Proc. Cotteswold Nat. F.-C.* Proceedings of the Cotteswold Naturalists' Field-Club. Gloucester.
- Proc. Davenport Acad. Nat. Sci.* Proceedings of the Davenport Academy of Natural Science. Davenport (Iowa).
- Proc. Dorset Nat. Hist. F.-C.* Proceedings of the Dorset Natural History and Antiquarian Field-Club. Dorchester.
- Proc. Geol. Assoc.* Proceedings of the Geologists' Association. London.
- Proc. Geol. Soc. S.A.* Proceedings of the Geological Society of South Africa. Johannesburg.
- Proc. Indiana Acad. Sci.* Proceedings of the Indiana Academy of Sciences. Indianapolis (Ind.).
- Proc. I. of Man Nat. Hist. Soc.* Proceedings of the Isle of Man Natural History and Antiquarian Society. Douglas.
- Proc. Linn. Soc.* Proceedings of the Linnean Society. London.
- Proc. Linn. Soc. N.S.W.* Proceedings of the Linnean Society of New South Wales. Sydney.
- Proc. Lit. Phil. Soc. Liverp.* Proceedings of the Literary and Philosophical Society of Liverpool. Liverpool.
- Proc. Liverp. Geol. Soc.* Proceedings of the Liverpool Geological Society. Liverpool.
- Proc. Malacol. Soc.* Proceedings of the Malacological Society. London.
- Proc. Midland Inst. M. E.* Proceedings of the Midland Institute of Mining, Civil, and Mechanical Engineers. Newcastle-upon-Tyne.
- Proc. Rhodesia Sci. Assoc.* Proceedings of the Rhodesia Scientific Association. Bulawayo.
- Proc. Roy. Inst. Gt. B.* Proceedings of the Royal Institution of Great Britain. London.
- Proc. Roy. Irish Acad.* Proceedings of the Royal Irish Academy. Dublin.
- Proc. Roy. Phys. Soc. Edinb.* Proceedings of the Royal Physical Society of Edinburgh. Edinburgh.
- Proc. Roy. Soc.* Proceedings of the Royal Society. London.
- Proc. Roy. Soc. Edinb.* Proceedings of the Royal Society of Edinburgh. Edinburgh.
- Proc. Roy. Soc. Tasm.* Proceedings of the Royal Society of Tasmania. Hobart.
- See Papers & Proc.*
- Proc. Roy. Soc. Victoria.* Proceedings of the Royal Society of Victoria. Melbourne.
- Proc. Soc. Bibl. Arch.* Proceedings of the Society of Biblical Archæology. London.
- Proc. S. Wales Inst. Engin.* Proceedings of the South Wales Institute of Engineers. Cardiff.
- Proc. U.S. Nat. Mus.* Proceedings of the United States National Museum. Washington (D.C.).
- Proc. Univ. Durham Phil. Soc.* Proceedings of the University of Durham Philosophical Society. Newcastle-upon-Tyne.
- Proc. verb. Soc. R. malac. Belg.* Procès-verbaux des Séances de la Société Royale malacologique de Belgique. Brussels.
- Proc. Wash. Acad. Sci.* Proceedings of the Washington Academy of Sciences. Washington (D.C.).
- Proc. Yorks. Geol. Soc.* Proceedings of the Yorkshire Geological Society. Halifax.
- Proc. Zool. Soc. London.* Proceedings of the Zoological Society. London.
- Proc. & Trans. Croydon Microsc. & Nat. Hist. Soc.* Proceedings and Transactions of the Croydon Microscopical and Natural History Society. Croydon.
- Proc. & Trans. N.S. Inst. Sci.* Proceedings and Transactions of the Nova Scotia Institute of Science. Halifax (N.S.).
- Proc. & Trans. Roy. Soc. Canada.* Proceedings and Transactions of the Royal Society of Canada. Ottawa.

- Prof. Papers, U.S. Geol. Surv.* Professional Papers, United States Geological Survey. Washington (D.C.).
- Publ. Carnegie Mus.* Publications of the Carnegie Museum. Pittsburg (Pa.).
- Publ. Earthq. Comm. Tokyo.* Publications of the Earthquake Investigations Committee in Foreign Languages. Tokyo.
- Q. J. G. S.* Quarterly Journal of the Geological Society. London.
- Q. J. R. Met. Soc.* Quarterly Journal of the Royal Meteorological Society. London.
- Quarry.* The Quarry. London.
- Queensl., Dep. Mines.* Queensland : Department of Mines. Brisbane.
- Ray Soc.* See *Monographs*.
- Rec. Geol. Surv. India.* Records of the Geological Survey of India. Calcutta.
- Rec. Geol. Surv. N.S.W.* Records of the Geological Survey of New South Wales. Sydney.
- Rec. Geol. Surv. Victoria.* Records of the Geological Survey of Victoria. Melbourne.
- Rec. Indian Mus.* Records of the Indian Museum. Calcutta.
- Rec. London & W. Country Chamber of Mines.* Record of the London and West-Country Chamber of Mines. London.
- Rec. Mysore Geol. Dep.* Records of the Mysore Geological Department. Bangalore.
- Rendic. e Mem. R. Acc. Sci. Acireale.* Rendiconti e Memorie della Reale Accademia di Scienze, Lettere ed Arti. Acireale.
- Rendic. R. Acc. Sci. Napoli.* Rendiconti della Reale Accademia delle Scienze fisiche e matematiche. Naples.
- Rendic. R. Ist. lomb.* Reale Istituto lombardo di Scienze e Lettere. Rendiconti. Milan.
- Rep. Austral. Assoc. Adv. Sci.* Report of the Australasian Association for the Advancement of Science. Sydney.
- Rep. Brit. Assoc.* Report of the British Association for the Advancement of Science. London.
- Rep. Brit. S. Africa Co.* Report of the British South Africa Company. London.
- Rep. Bur. Mines, Canad.* Report of the Bureau of Mines, Canada. Ottawa.
- Rep. Croydon Microsc. Club.* See *Proc. & Trans. Croydon Microsc. & Nat. Hist. Soc.*
- Rep. Dep. Mines, India.* Report of the Chief Inspector of Mines in India, Department of Mines. Calcutta.
- Rep. Dep. Mines N.S.* Report of the Department of Mines, Nova Scotia. Halifax (N.S.).
- Rep. Dep. Mines, Tasm.* Report of the Secretary of the Department of Mines. Hobart.
- Rep. Dep. Mines, Transvaal.* See *Transvaal Mines Dep.*
- Rep. Dep. Mines, W. Austral.* Report of the Department of Mines, Western Australia. Perth (W.A.).
- Rep. Geol. Surv. Louisiana.* Report of the Geological Survey of Louisiana. Bâton Rouge (La.).
- Rep. Geol. Surv. Newfoundland.* Report of the Geological Survey of Newfoundland. St. John's (N.F.).
- Rep. Geol. Surv. Transvaal.* See *Transvaal Mines Dep., Rep. Geol. Surv.*
- Rep. Geol. Surv. U.K. & Mus. of Pract. Geol.* Report of the Geological Survey of the United Kingdom and of the Museum of Practical Geology. London.
- Rep. Inst. Mines & Forests, Brit. Guiana.* Report of the Council of the Institute of Mines and Forests on the Gold and Forest-Industries of British Guiana. Georgetown (Demerara).
- Rep. Leicester Mus.* Report of the Committee to the Town Council, Leicester Corporation Museum and Art Gallery. Leicester.
- Rep. Mich. Acad. Sci.* Report of the Michigan Academy of Science. Lansing (Mich.).
- Rep. Rhodesia Chamb. Mines.* Report of the Rhodesia Chamber of Mines. Bulawayo.
- Rep. Rugby School Nat. Hist. Soc.* Report of the Rugby School Natural History Society. Rugby.
- Rep. S. Afr. Assoc. Adv. Sci.* Report of the South African Association for the Advancement of Science. Cape Town.
- Rep. S. Afr. Mus.* Report of the South African Museum. Cape Town.
- Rep. S.E. Union Sci. Soc.* See *Trans. S.E. Union Sci. Soc.*
- Rep. Surv. Dep. Egypt.* Report on the Work of the Survey Department. Cairo.
- Rep. U.S. Dep. Agric.* Report of the United States Department of Agriculture. Washington (D.C.).
- Rep. U.S. Nat. Mus.* Report of the United States National Museum. Washington (D.C.).

- Rep. Univ. Geol. Surv. Kansas.* Reports of the University Geological Survey of Kansas. Topeka (Kan.). See also *Ann. Bull. Min. Resources, Kansas.*
- Rep. Vermont State Geol.* Report of the State Geologist of Vermont. Montpelier (Vt.).
- Rep. & Proc. Belfast Nat. Hist. Soc.* Report and Proceedings of the Belfast Natural History and Philosophical Society. Belfast.
- Rep. & Trans. Devon. Assoc. Adv. Sci.* See *Trans. Devon. Assoc.*
- Rev. Cienc., Lima.* Revista de Ciencias. Lima.
- Rev. critique de Paléozool.* Revue critique de Paléozoologie. Paris.
- Rev. Inst. geogr. & hist. Bahia.* Revista trimensal do Instituto geographico e historico da Bahia. Bahia (Brazil).
- Rev. Minas, Santiago.* Revista de Minas. Santiago de Chile.
- Rev. Mus. La Plata.* Revista del Museo de la Plata. La Plata.
- Rev. R. Acad. Cienc. Madrid.* Revista de la Real Academia de Ciencias exactas, físicas y naturales. Madrid.
- Rev. Sci. Paris.* Revue Scientifique. Paris.
- Rev. Soc. sci. São Paulo.* Revista da Sociedade scientifica de São Paulo. São Paulo.
- Rhodesia Mus.* Rhodesia Museum. Bulawayo.
- Riv. ital. Paleont., Perugia.* Rivista italiana di Paleontologia, Perugia (late Bologna, Parma).
- Riv. Min. e Crist. ital. Padova.* Rivista di Mineralogia e Cristallografia italiana. Padua.
- Rochester Nat.* Rochester Naturalist. Rochester.
- Rozpr. Akad. Umiej. Krakow.* Rozprawy Wydziału matematyczno-przyrodniczego Akademii Umiejetności. Cracow.
- Samml. geol. R.-Mus. Leiden.* Sammlungen des geologischen Reichs-Museums in Leiden. Leyden.
- São Paulo, Comm. geogr. e geol.* Comissão geographica e geologica do Estado de São Paulo. São Paulo.
- Schr. Gesellsch. Naturw. Marburg.* Schriften der Gesellschaft zur Beförderung der gesammten Naturwissenschaften zu Marburg. Marburg.
- Schr. Naturf.-Gesellsch. Univ. Dorpat.* Schriften herausgegeben von der Naturforscher-Gesellschaft bei der Universität Jurjew. Dorpat.
- Schr. physik.-ökonom. Gesellsch. Königsb.* Schriften der physikalisch-ökonomischen Gesellschaft. Königsberg in Pr.
- Sci. Bull. Mus. Brooklyn Inst. Arts & Sci.* Science Bulletin of the Museum of the Brooklyn Institute of Arts and Sciences. Brooklyn (N.Y.).
- Sci. Bull. Univ. Kansas.* Science Bulletin of the University of Kansas. Lawrence (Kan.).
- Sci. Proc. R. Dublin Soc.* Scientific Proceedings of the Royal Dublin Society. Dublin.
- Sci. Trans. R. Dublin Soc.* Scientific Transactions of the Royal Dublin Society. Dublin.
- Science.* Science. New York.
- Scot. Geogr. Mag.* Scottish Geographical Magazine. (Royal Scottish Geographical Society.) Edinburgh.
- Sitz. Gesellsch. naturf. Freunde, Berlin.* Sitzungsberichte der Gesellschaft naturforschender Freunde. Berlin.
- Sitz. k. Akad. Wissensch. Wien.* Sitzungsberichte der kaiserlichen Akademie der Wissenschaften, Wien. Vienna.
- Sitz. k.-bayr. Akad.* Sitzungsberichte der mathematisch-physikalischen Classe der königlich-bayerischen Akademie der Wissenschaften. Munich.
- Sitz. k.-preuss. Akad. Wissensch. Berlin.* Sitzungsberichte der königlich preussischen Akademie der Wissenschaften. Berlin.
- Sitz. Naturf.-Gesellsch. Dörfpat.* Sitzungsberichte der Naturforscher-Gesellschaft bei der Universität Jurjew. Dorpat.
- Sitz. naturh. Ver. preuss. Rheinl.* Sitzungsberichte herausgegeben vom naturhistorischen Verein der preussischen Rheinlande und Westfalens. Bonn.
- Sitz. niederrhein. Gesellsch. Nat. &c., Bonn.* Sitzungsberichte der niederrheinischen Gesellschaft für Natur- und Heilkunde zu Bonn. Bonn. See *Verh. naturh. Ver. preuss. Rheinl.*
- Sitz. u. Abh. Gesellsch. 'Isis.'* Sitzungsberichte und Abhandlungen der naturwissenschaftlichen Gesellschaft 'Isis' in Dresden. Dresden.
- Smiths. Contrib. Knowledge.* Smithsonian Contributions to Knowledge. Washington (D.C.).
- Smiths. Miscell. Coll.* Smithsonian Miscellaneous Collections. Washington (D.C.).
- Soc. 'Ger. Guidoni,' Spezia.* Società 'Gerolamo Guidoni' per la Diffusione e l'Incremento degli Studi naturali. Spezia.

- Spelunca*. 'Spelunca.' Bulletin et Mémoires de la Société de Spéléologie. Paris.
- Summ. Progr. Geol. Surv. U.K.* Summary of Progress of the Geological Survey of the United Kingdom. London.
- Summ. Rep. Geol. Surv. Canada*. Summary Report of the Geological Survey of Canada. Ottawa.
- Sver. geol. Undersökn., Afh.* Sveriges geologiska Undersökning, Afhandlingar. Stockholm.
- Sver. geol. Undersökn., Årsb.* Sveriges geologiska Undersökning, Årsbok. Stockholm.
- Tasm. Dep. Mines*. Tasmania. Department of Mines. Hobart.
- Trans. Acad. Sci. St. Louis*. Transactions of the Academy of Science. St. Louis (Mo.).
- Trans. Am. Inst. M. E.* Transactions of the American Institute of Mining Engineers. New York.
- Trans. Am. Phil. Soc.* Transactions of the American Philosophical Society. Philadelphia (Pa.).
- Trans. Austr. Inst. M. E.* Transactions of the Australasian Institute of Mining Engineers. Melbourne & Sydney.
- Trans. Brit. Assoc. Waterw. Eng.* Transactions of the British Association of Waterworks Engineers. London.
- Trans. Cambridge Phil. Soc.* Transactions of the Cambridge Philosophical Society. Cambridge.
- Trans. Canad. Inst.* Transactions of the Canadian Institute. Toronto.
- Trans. Connect. Acad.* Transactions of the Connecticut Academy of Arts and Sciences. New Haven (Conn.).
- Trans. Croydon Nat. Hist. Soc.* See *Proc. & Trans. Croydon Microsc., &c.*
- Trans. Cumberland Assoc.* Transactions of the Cumberland Association. Carlisle.
- Trans. Devon Assoc.* Transactions of the Devonshire Association for the Advancement of Science. Plymouth.
- Trans. Edinb. Geol. Soc.* Transactions of the Edinburgh Geological Society. Edinburgh.
- Trans. Geol. Soc. Glasgow*. Transactions of the Geological Society of Glasgow. Glasgow.
- Trans. Geol. Soc. S. Afr.* Transactions of the Geological Society of South Africa. Johannesburg.
- Trans. Herts Nat. Hist. Soc.* Transactions of the Hertfordshire Natural History Society and Field-Club. Hertford.
- Trans. Hist. & Sci. Soc. Manitoba*. Transactions of the Historical and Scientific Society of Manitoba. Winnipeg.
- Trans. Hull Geol. Soc.* Transactions of the Hull Geological Society. Hull.
- Trans. Hull Sci. & F.-Nat. Club*. Transactions of the Hull Scientific and Field-Naturalists' Club. Hull.
- Trans. Inst. M. E.* Transactions of the Institution of Mining Engineers. Newcastle-upon-Tyne.
- Trans. Inst. Mining & Metall.* Transactions of the Institution of Mining and Metallurgy. London.
- Trans. Kansas Acad. Sci.* Transactions of the Kansas Academy of Science. Topeka (Kan.).
- Trans. Leeds Geol. Assoc.* Transactions of the Leeds Geological Association. Leeds.
- Trans. Leicester Lit. & Phil. Soc.* Transactions of the Leicester Literary and Philosophical Society. Leicester.
- Trans. Linn. Soc.* Transactions of the Linnean Society. London.
- Trans. Manch. Geol. Soc.* Transactions of the Manchester Geological and Mining Society. Manchester.
- Trans. N. Engl. Inst. Min. & Mech. Eng.* Transactions of the North of England Institute of Mining and Mechanical Engineers. Newcastle-upon-Tyne.
- Trans. N.Z. Inst.* Transactions and Proceedings of the New Zealand Institute. Wellington (N.Z.).
- Trans. N.Z. Inst. M. E.* Transactions of the New Zealand Institute of Mining Engineers. Auckland (N.Z.).
- Trans. Perth Soc. Nat. Sci.* Transactions and Proceedings of the Perthshire Society of Natural Science. Perth.
- Trans. R. Geol. Soc. Cornwall*. Transactions of the Royal Geological Society of Cornwall. Penzance.
- Trans. Roy. Irish Acad.* Transactions of the Royal Irish Academy. Dublin.
- Trans. Roy. Soc. Canada*. See *Proc. & Trans. Roy. Soc. Canada*.
- Trans. Roy. Soc. Edinb.* Transactions of the Royal Society of Edinburgh. Edinburgh.

- Trans. Roy. Soc. N.S.W.* Transactions of the Royal Society of New South Wales. Sydney (N.S.W.).
- Trans. Roy. Soc. S. Austral.* Transactions of the Royal Society of South Australia. Adelaide.
- Trans. S. Afr. Phil. Soc.* Transactions of the South African Philosophical Society. Cape Town.
- Trans. S.E. Union Sci. Soc.* Transactions of the South-Eastern Union of Scientific Societies. London.
- Trans. Wisconsin Acad. Sci.* Transactions of the Wisconsin Academy of Science, Arts, and Letters. Madison (Wis.).
- Trans. Woolhope Nat. F.-C.* Transactions of the Woolhope Naturalists' Field-Club. Hereford.
- Trans. Worcester. Nat. Club.* Transactions of the Worcestershire Naturalists' Club. Worcester.
- Trans. Zool. Soc. Lond.* Transactions of the Zoological Society. London.
- Transvaal Mines Dep., Rep. Geol. Surv.* Transvaal Mines Department. Report of the Geological Survey. Pretoria.
- Trav. Mus. géol. Pierre le Grand, St. Petersb.* Travaux du Musée géologique Pierre le Grand. St. Petersburg.
- Trav. Sec. géol. Cab. Sa M. St. Petersb.* Travaux de la Section géologique du Cabinet de Sa Majesté. St. Petersburg.
- Tufts Coll. Studies.* Tufts College Studies. Tufts College (Mass.).
- Uppsala Univ. Årsskrift.* Uppsala Universitets Årsskrift. Upsala.
- Verh. deutsch. wissensch. Ver. Santiago.* Verhandlungen des deutschen wissenschaftlichen Vereins zu Santiago de Chile. Valparaiso.
- Verh. k.-k. geol. Reichsanst.* Verhandlungen der kaiserlich-königlichen geologischen Reichsanstalt. Vienna.
- Verh. k.-k. zool.-bot. Gesellsch. Wien.* Verhandlungen der kaiserlich-königlichen zoologisch-botanischen Gesellschaft in Wien. Vienna.
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—, Cretaceous.—Leriche, M., 5; Woods, H.
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- , Germany.—Freise, F., 4;
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- , Cretaceous.—Filliozat, —; Lang, W. D.
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—, Midlands area.—Sibly, T. F.
—, Monmouth.—Arber, E. A. N.
—, Nord.—Carpentier, A.; Gosselet, J., 5; Sainte-Claire Deville, C. J.
—, Novaya Zemlya.—Lee, G. W.
—, Rhenish Prussia.—Holzapfel, E.
—, marine beds, Scotland.—Smith, J.
—, Period, restoration of the.—Reinsch, P.
—, zones in the.—Hind, W.; Renier, A., 2.
—, *See also* Coalfields, Plants, &c.
Carcinophyllum.—Matley, C. A.
Cardiola.—Chapman, F., 2.
Cardita.—Oppenheim, P., 2; Pellat, E.; Steinmann, G., 6; Thomson, J. A., 2.
Cardium.—Pellat, E.; Woods, H., 2.
Cardium-marls, Rome.—Stefani, C. de, 2.
Carinthia (Austria).—Ahlburg, —; Himmelbauer, A.; Redlich, K. A., 5.
Carlos Valley (Pyrenees).—Fournier, E.
Carnallite.—Bøke, H. E.
—, water in.—Kremann, R.
Carnegia.—Girty, G. H.
Carnic Alps.—Vinassa de Regny, P. E., 1 & 4; *see also* Alps.
Carniola (Austria).—Ahlburg, —; Muellner, A.
Carnivora, Tertiary.—Matthew, W. D.; *see also* Mammalia, Tertiary.
Carolina, North (U.S.A.).—Crosby, W. O.; *see also* South Carolina.
Carpathian Mts.—Atanasiu, S.; Bergeron, J.; Mrazec, L., 2; Petrascheck, W., 3; Teisseyre, W.
—, Little (Hungary).—Richarz, P. S., 1 & 2.
—, sandstone.—Uhlig, V.
Carracloca (Spain).—Puerta, G. de la.
Carrara Quarries (Tuscany).—Delhay, F., 2.
Carrizal (Mex.).—Caballero, G. de J.
Cartagena (Murcia).—Pilz, R.
Carya.—Kowarzik, R.
Caryocaris.—Chapman, F., 10.
Caryophylla.—Steinmann, G., 6.
Cascade Coal-basin (Alberta).—Dowling, D. B.
Cassel (Hesse).—Hornstein, F. F.
Cassidea.—Dalton, L. V.
Cassidulidæ, Tertiary.—Stefanini, G.
Cassiterite, Tallangalook.—Howitt, A. M., 4.
—, Transvaal.—Kynaston, H., 2.
Castlepeak cave (Co. Cork).—Ussher, R. J.
Castor.—Major, C. I. F., 3.
Catalonia (Spain).—Maier, W.
Catanzaro (Calabria).—Crema, C.
Cattagat, peat submerged in.—Erdmann, E., 2.
Caucasus (Russia).—Palibin, I. V.; Rakusin, M. A.; Stevens, —; Stolley, E., 2; Yermolov, A.
Caustobiotite, origin of.—Potonié, H., 1 & 3.
Cave, glacier (B.C.).—Ayres, W. S.
Cave man, Belgium & France.—Rutot, A., 1 & 2; *see also* Man.
‘Cave Pearls.’—Broderick, H.
Cave Sandstone, Ozark Mts.—Purdue, A. H.
Caverns & caves, Ariège.—Jeannel, R.
—, Belgium.—Maillieux, E., 3; Rahir, E.
—, French Jura.—Fournier, E., 3.
—, Ireland.—Broderick, H.; Hill, C. A.; Ussher, R. J.
—, Kent.—Anon., 26.

- Caverns & caves, Kesslerloch.—Heierli, J.
 ———, Lot.—Viré, A.
 ———, Mexico.—Allorge, M. M.
 ———, Pembroke.—Style, A. H.
 ———, Tuscany.—Ugolini, R., 2 & 3;
 Vinassa de Regny, P. E., 2.
 ———, Yonne.—Parat, A.
 ———. See also Drawings, &c.
 Cayuga Valley (N.Y.).—Maury, C. J.
 Cea.—Filliozat, —.
 Ceará (Brazil).—Jordan, D. S.
 Cecina (Tuscany).—Delkeskamp, R.
 Celebes (D.E.I.).—Hinde, G. J.; Koperberg, M.; Osimo, G.; Verbeek, R. D. M.
 Celestite.—Samoilov, J., 3; Traina, E.
 Celtites.—Arthaber, G. von; Gemmellaro, G. G.
 Cement decomposed by sea-water.—Elsden, J. V., 2.
 ———, materials of.—Bassler, R. S.; Humphrey, R. L.
 Cement-belt, Pennsylvania.—Peck, F. B.
 Cementing-material of sandstones.—Sommerfeldt, E., 5.
 Cenellipsis & Cenosphæra.—Hinde, G. J.
 Centroceras.—Wedekind, R.
 Centrosaurus.—Hatcher, J. B.
 Cephalograptus.—Elles, G. L.
 Cephalopoda, Cretaceous.—Kitchin, F. L.; Schmidt, W.; Wisniowski, T.
 ———, Devonian.—Clarke, J. M.; Mailieux, E., 4; Parks, W. A.; Steinmann, G., 3; Wedekind, R.
 ———, Jurassic.—Lewinski, J., 2; Newton, R. B., 2.
 ———, Triassic.—Arthaber, G. von; Gemmellaro, G. G.
 ———, Tertiary.—Vincent, E.
 ———. See also Ammonites, &c.
 Cephalonia (Greece).—Fuller, M. L.
 Ceram (D.E.I.).—Hinde, G. J.
 Ceramopora.—Henniz, A.
 Cerana.—Jordan, D. S.
 Cerargyritic ores.—Keyes, C. R.
 Ceratites.—Fischer, H.; Gemmellaro, G. G.
 ——— limestone, Greece.—Renz, C.
 Ceratocephala.—Clarke, J. M.
 Ceratodus.—Woodward, A. S.
 Ceratopsian Dinosaurs.—Lull, R. S., 2.
 Ceratoxodon.—Ameghino, F., 2.
 Ceriodictyon.—Oppliger, F.
 Cerithinella.—Del Campana, D.
 Cerithium.—Oppenheim, P., 2.
 Cernavoda (Rumania).—Anastasiu, V.
 Cernay (Marne).—Dollfus, G. F., 5.
 Cerussite, Rézbanya.—Löw, M.
 Cervidae, Tertiary.—Matthew, W. D., 2.
 Cervus.—Pavlov, M., 1 & 2.
 Cetacea, Tertiary.—Kadić, O., 4; True, F. W., 1-3.
 Cetine (Tuscany).—Manasse, E., 2.
 Cetiosaurian, Greensand, Kent.—Woodward, A. S., 3.
 Cetorhinus.—Leriche, M., 4.
 Ceylon.—Cosyns, G., 2; Gardiner, J. S.; see also CEYLON, Admin. Rep., 1 & 2; & Colonial Rep.
 Chad, Lake (Sudan).—Chudeau, R., 2.
 Chatetes.—Jaccard, F., 2.
 Chajoux-Moselotte (Vosges).—Pohlig, H., 3.
 Chalcanthite, Chile.—Keller, H. F.
 Chalcedony.—Leitmeier, H., 2.
 Chalk, Bornholm.—Greenwall, K. A.
 ———, Brunswick, Hanover, &c.—Kønen, A. von, 3; Stolley, E., 1 & 3.
 ———, Faxö.—Miltthers, V., 4.
 ———, Hainault.—Delhaye, F.
 ———, Hants.—Barrois, C., 2; Sherborn, C. D., 4 & 6; Rowe, A. W., 3.
 ———, Kansas.—Sternberg, C. H.
 ———, Kent.—Anon., 26; Barrois, C., 2; Rowe, A. W., 1-2; Sherborn, C. D., 4 & 6; Woodward, A. S., 7; Woodward, H., 3.
 ———, natural caverns in.—Anon., 26.
 ———, Nord.—Gosselet, J., 4; Janet, C.
 ———, Paris Basin.—Leriche, M., 6; Rég-nault, E.
 ———, Rhenish Prussia.—Holzapfel, E.
 ———, Rochester.—Sills, S.
 ———, Rügen.—Philippi, E.
 ———, Surrey.—Young, G. W.
 ———, Sussex.—Barrois, C., 2; Sherborn, C. D., 4 & 6.
 ———, Thames Valley.—Chatwin, C. P.
 ———, Trimmingham.—Brydne, R. M.
 ———, Westphalia.—Stille, H.
 ———, wood in Haubourdin.—Bertrand, P.
 ———, zones of the.—Chatwin, C. P.; Rowe, A. W., 3.
 ———, water &.—Burr, M.
 ———, grey, Limagne.—Grossouvre, A. de, 2.
 ———, white, mineralogy of the.—Meunier, S., 4.
 Challakere (Mysore).—Sampat Iyengar, P., 4.
 Chalmers, Mt. (Queensl.).—Dunstan, B.
 Châlons-sur-Vesle (Marne).—Leriche, M., 7.
 Chambéry (Savoy).—Schaudel, L.
 Chamonix (Upper Savoy).—Vallot, J.
 Champagne (France).—Breton, L., 10; see also Marne, &c.
 Charlton (Kent).—Whitaker, W., 2.
 Charnwood Forest (Leicester).—Bennett, F. W.; Richardson, L., 9; Stracey, B.
 Châtillon-sur-Saône (Vosges).—Dory, A.; Ruedemann, R.
 Chaunograptus.—Clarke, J. M.
 Checiny (Galicia).—Lewinski, J., 2.
 Cheiloceras.—Wedekind, R.
 Chemical composition of igneous rocks.—Warth, H.
 Chemistry, Geological Survey of Canada.—See CANADA, Dep. Mines, 4.
 ———, Nile R. water.—Lucas, A.

- Chemung Formation, Maryland. — Swartz, C. K.
 ———, New York.—Williams, H. S.
 Chenay (Marne).—Leriche, M., 7.
 Chepstow (Monmouth).—Arber, E. A. N.
 Chert, diatomaceous.—Deecke, W., 2.
 ———, Dutch East Indies.—Hinde, G. J.
 ———, origin of.—Harker, T.
 ———, Victoria.—Skeats, E. W., 2; Summers, H. S.
 Cheshire.—Beasley, H. C.; Greenwell, A., 2; Lomas, J., 2.
 Chessylite.—*See* Azurite.
 Cheticamp (N.S.).—Grandin, M. V.; Poole, H. S.
 Chicago (Ill.).—Slocum, A. W.
 Chihuahua (Mex.).—Hovey, E. O.
 Chilapa (Mex.).—Bigoudan, G., 2.
 Childrenite, Saxony.—Koibeck, F., 2.
 Chile (S. Am.).—Argandoña, N.; Keller, H. F.; Machado, M. R.; Palache, C.; Schneider, J.
 Chiltern (Vict.).—Baragwanath, W., 2.
 Chiltern valleys, formation of.—Spicer, E. C., 1 & 2.
 China (Asia).—Abendanon, E. C., 1 & 2; Church, J. A.; Girty, G. H.; Obruchev, V. A., 2; Willis, B., 4; Yokoyama, M.
 China-clay.—Anon., 27; Dawkins, W. B., 2; Hickling, G., 2.
 Chinese Turkestan (Asia).—Vaillant, L., 2.
 Chipping - Campden (Gloucester). — Richardson, L., 17.
 Chisone Valley (Piedmont).—Colomba, L., 2.
Chlamys.—Cossmann, M.
 Chlorargyrite.—Lommer, C. H.
 Chlorite.—Dahmer, K.
 Chlormanganokalite. — Johnston-Lavis, H. J.
 Chocolate Shale, Narrabeen Series.—Walton, S. G.
Chonella.—Poëta, P.
Chonetes.—Clarke, J. M.; Fraipont, C., 5; Green, F. C.; Maillieux, E., 1 & 6; Sibly, T. F.
 Chopine, Puy (Auvergne).—Glangeaud, P., 4.
 CHRISTIEN DE TROYES.—*See* Baker, E. A.
 Christiania (Norway).—Bjørlykke, K. O., 4; Kier, J.
 Chromite.—Borgström, L. H.; Hall, A. L., 6; Lazarević, M.; Tassin, W., 2.
 Chrysotile.—Mawson, D., 3.
 Chur (Grisons).—Baumberger, E., 3.
 Church Stretton (Salop).—Richardson, L., 11.
 Ciavallatsch district (Tyrol).—Hammer, W., 3.
Cidaris.—Lambert, J., 3; Savin, L.
 Cinder-tip minerals.—Buttgenbach, H.
 Ciney (Namur).—Soreil, G.
 Cinnabar, Bosnia.—Katzner, F.
 Cinnabar, Lr. Austria & Styria.—Cornu, F., 10.
 Cipolino, Dahomey.—Hubert, H., 2.
 Cirripedia, Cretaceous.—Woodward, H., 3.
 ———, Jurassic.—Richardson, L., 5.
Cirrus.—Del Campana, D.
 Ciudad Real (Spain).—Michael, R., 6.
Cladiscites.—Gemmellaro, G. G.
Cladocyclus.—Jordan, D. S.
Cladophlebis.—Seward, A. C.
 Clairefontaine (Algeria).—Blayac, J.
 Clausthal (Harz).—Andrée, K., 1 & 7.
 Clay content of soils.—Fletcher, C. C.
 ——— from granite.—Dawkins, W. B., 2.
 ——— ironstone concretions, Westphalia. — Köhne, W.
 ———. *See also* China-clay.
 Clays, Campine & Limbourg.—Lorié, J., 1 & 2.
 ———, classification of.—Atterberg, A., 2.
 ———, Dakota.—Clapp, C. H.
 ———, France.—Laville, —.
 ———, geology & origin of. — Widman, R.
 ———, Maryland.—*See* MARYLAND Geol. Surv., 2 & 3.
 ———, naphtha-bearing, S. Russia. — Ivanov, A. P.
 ———, Ontario.—Baker, M. B.
 ———, Oran.—Poirmeur, H., 2.
 ———, separation of.—Cohen, L.
 ———, silicic acid &.—Stremme, H., 2.
 ———, stability of cuttings in.—Grégoire, A.
 ———, Sweden.—Atterberg, A., 1 & 2; Widman, R.
 ———, Westerwald Mts.—Freise, F., 3.
 Clear Fork Beds, Texas.—Case, E. C., 2.
Clementia.—Woods, H., 2.
 Clent Hills (Worcester).—Humphreys, J., 2.
Clepydropsis.—Bertrand, P., 4.
 Cliff (Kent).—Rowe, A., 2.
 Cliffe (Kent).—Whitaker, W.
 Clifford's Mesne (Gloucester).—Richardson, L., 8.
Climacograptus.—Ruedemann, R.
 Climates, geological.—Frech, F., 2; Lane, A. C., 8; Schæberle, J. M., 2.
 ———, Jurassic.—Kerner, F. von, 5.
 ———, palæogeography &.—Semper, M.
 ———, Permo-Carboniferous.—White, D.
 ———, Swedish Quaternary.—Hægg, R.
 ———, terrestrial deposits &.—Barrell, J., 2.
 ———, Tertiary.—Caziot, E.; Kinkelin, F.
 ———. *See also* Atmosphere, &c.
 Clinton Formation, New York.—Newland, D. H., 5.
Clione.—Chapman, F., 4.
Clisiophyllum.—Matley, C. A.; Sibly, T. F.
Clydonites.—Gemmellaro, G. G.
Clymenia.—Wedekind, R.
Clypeaster.—Lambert, J., 3.
Clypeus.—Richardson, L., 15.

- Coal, Alaska.—Brooks, A. H.; Martin, G. C.
- , Alberta.—Dowling, D. B.
- , Alsace.—Van Werveke, L., 4.
- , Angleur.—Fraispoint, C., 2.
- , Brazil.—Santos, B. J. dos.
- , British Columbia.—*See* BRITISH COLUMBIA; Ellis, R. W.; *see also* CANADA, Dep. Mines, 1-7.
- , Canada.—*See* CANADA, Dep. Mines, 7; Ellis, R. W., 5; *see also* Alberta, &c.
- , Campine.—Schmitz, G., 4.
- , Champagne, Lorraine, & Picardy.—Breton, L., 10.
- , Chile.—Machado, M. R.; *see also* CHILE.
- , China.—Church, J. A.; Willis, B., 4.
- , classification of low-grade.—Campbell, M. R., 2 & 3.
- , coking.—Pishel, M. A.
- , composition of.—Grout, F. F.
- , Dalmatia.—Schubert, R. J., 4.
- , deposition, rate of.—Ashley, G. H.
- , Dombrova Bassin.—Charnotzki, S. I.
- , Don Cossack District.—Stepanov, P.
- , Dutch East Indies.—*See* DUTCH EAST INDIES.
- , formation of.—Breton, L., 3; Pfeiffer, J. F. von; White, D., 2.
- , Franche-Comté.—Fournier, E., 2.
- , Galicia & Silesia.—Uhlig, V.
- , gases in.—Trobridge, F. G.
- , Illinois.—Bain, H. F., 1 & 4; Wheeler, W. F.
- , India.—Holland, T. H., 1-3; Vredenburg, E. W., 6.
- , Kent.—Anon., 31.
- , Kentucky.—Stone, R. W.
- , Liège.—Lohest, M., 3; Renier, A., 1-5.
- , Luxemburg.—Van Werveke, L., 8.
- , Madagascar.—Boule, M., 2.
- , Montana.—Fisher, C. A.
- , Moravia.—Suess, F. E.
- , Namur.—Fourmarier, P.
- , New South Wales.—*See* NEW SOUTH WALES, Dep. Mines.
- , New Zealand.—*See* NEW ZEALAND, Dep. Mines.
- , Norway.—Friis, J. P.; Vogt, J. H. L., 2.
- , Ohio.—*See* OHIO, Geol. Surv.
- , Oklahoma.—Gould, C. N.
- , Orange River Colony.—*See* ORANGE RIVER COLONY, Mines Dep.
- , Philippine Is.—Smith, W. D., 3.
- , Rhodesia.—Mennell, F. P.
- , Saarbrücken.—Siméons, G., 8.
- , Sahara.—Carnot, A.
- , sampling.—Campbell, M. R.
- , Saxony.—Becker, W. G.; Gæbert, C.
- , Silesia.—Michael, R., 2 & 5.
- , Tyrone.—Bolton, H.
- Coal, United States.—Campbell, M. R., 4.
- , Victoria.—Dunn, E. J., 29 & 39; *see also* VICTORIA, Dep. Mines.
- , Virginia.—Stone, R. W.
- , Warwickshire thick.—Browne, J. T.
- , weathering of.—Parr, S. W.
- , West Virginia.—White, I. C.; *see also* WEST VIRGINIA, Geol. Surv.
- , Western Australia.—*See* WESTERN AUSTRALIA, Dep. Mines, 1 & 2.
- Coal-balls, formation of.—Watson, D. M. S., 2.
- , Liège.—Deltene, H.
- Coal Creek (Vict.).—Dunn, E. J., 29.
- Coalfields, Appalachian.—Ashley, G. H., 2; Stevenson, J. J.
- , Arkansas.—Collier, A. J.
- , Belgian.—Fourmarier, P., 6; Lohest, M., 3; Renier, A., 1-5.
- , Boulonnais, &c.—Breton, L., 1-3, 6-10.
- , Commeny.—Breton, L., 5.
- , Derbyshire.—Gibson, W., 2; Horwood, A. R., 2 & 6.
- , Durham.—Kirsopp, J., *fil.*; Prest, J. J.
- , Illinois.—Ashley, G. H., 2.
- , Kansas.—Haworth, E.
- , Lancashire.—Dawkins, W. B.; Watson, D. M. S., 2.
- , Leicestershire.—Horwood, A. R., 6.
- , New South Wales.—Carne, J. E.; David, T. W. E.
- , Newent.—Richardson, L., 8.
- , Northumberland.—Kirsopp, J., *fil.*
- , Nottinghamshire.—Gibson, W., 1 & 2; Horwood, A. R., 2.
- , Saar.—Okorn, F.
- , Silesia.—Michael, R., 2 & 5; Petrascheck, W., 2 & 4.
- , South Wales.—Strahan, A., 2.
- , Westphalia.—Bærtling, R.; Wegner, —.
- , West Virginia.—Stoek, H. H.
- , Wyre Forest.—Spackman, F. T.
- , Yorkshire.—Culpin, H.; Gibson, W.; Watson, D. M. S., 2.
- , *See also* Coal, &c.
- Coal Measures.—*See* Carboniferous, coal-fields, &c.
- Coal-mining, practical.—Boulton, W. S.
- , Warwickshire.—Smith, A.
- Coast-erosion.—Holmes, T. V., 2.
- Coastal drift-sands, wind &c.—Olsson-Seffer, P.
- Coatquidan (Britanny).—Kerforne, F.
- Cobalt, Maine.—Bastin, E. S.
- , Mexico.—Navarro, D. V.
- , Ontario.—Hore, R. E.; Howe, H. M.; Miller, W. G., 1-3; Stutzer, O.
- Cobalt district (Ont.).—Parks, W. A., 2; Stutzer, O.
- Coblenzian, Namur.—Maillieux, E., 8.
- , Westphalia.—Kœhne, W.
- Cobquecura (Chile).—Schneider, J.

- Coccosteus*.—Watson, D. M. S.
 Cockatoo Flat (Victoria).—Hunter, S. B.
Codaster.—Steinmann, G., 3.
Cœlacanthus.—Eastman, C. R., 2.
Cœloceras.—Maillieux, E., 5.
 Cœur d'Alène District (Idaho).—Ransome, F. L., 6; Rowe, J. P.
 Coglián Group (Carnic Alps).—Vinassa de Regny, P. E., 4.
 COHEN, E. W., *Obit.*—See Deecke, W.
 Coleoptera, Tertiary.—Cockerell, T. D. A., 7; *see also* Insects.
 Colima (Mex.).—Hovey, E. O., 2.
 College of Mines, Michigan.—See MICHIGAN.
Collonia.—Cossmann, M.
Collyrites.—Richardson, L., 15.
 Colombia (S. Am.).—Hettner, A.; Oldham, R. D., 3.
 Colonsay (Hebrides).—Wright, W. B.
 Colorado (U.S.A.).—Brues, C. T., 1 & 2; Cockerell, T. D. A., 1-11; Cross, W.; Gale, H. S.; Hayes, C. W.; Henderson, J.; Lakes, A.; Lindgren, W., 2; Milch, L.; Needham, J. G.; Ransome, F. L., 5; Ritter, E. A., 1 & 2; Rohwer, S. A., 1 & 2; Wickham, H. F.
 Colour-markings, Devonian brachiopoda.—Greger, D. K.
Columbella.—Steinmann, G., 6.
Columbites.—Arthaber, G. von.
 Comarnic (Rumania).—Teisseyre, W., 2.
 Commeny (Allier).—Breton, L., 5; Meunier, F.
Comoseris.—Chapman, F., 4.
 Compatri, Monte (Rome).—Rosati, A.
 Conadale Range (Queensl.).—Jensen, H. I., 2.
 Concretions, Beauce limestone.—Court, G.
 —, Devonian.—Køhne, W.
 —, iron.—Graber, H. V.
 —, origin of.—Gardner, J. H.
 —. *See also* Calcareous nodules, coal-balls, segregations, &c.
 Conrad Fissure (Ark.).—Brown, B., 3.
 Cones, pine.—Wieland, G. R.
 Conglomerate, Huy.—Fourmarier, P., 2.
 —, Ohio Carboniferous desiccated.—Hyde, J. E.
 —, Sparnacian, Paris Basin.—Combes, P., *fl.*, 3.
 —, Triassic, Thuringia.—Zimmermann, E.
 —, volcanic.—Lacroix, A.
 —, Witwatersrand auriferous.—Kuntz, J.
 Con, French (W. Afr.).—Lacroix, A., 4.
 — State (C. Afr.).—Cornet, J., 2, 5, & 6.
 Congress, Italian Society for the Progress of Science.—Sacco, F., 4.
 —, Seismological.—Simoes, G., 2.
 Connecticut (U.S.A.).—Hobbs, W. H., 2.
Conoclypeus.—Stefanini, G.
Conorhytis.—Cossmann, M.
Conosphæra.—Hinde, G. J.
 Conrad (Yukon).—Cairnes, D. D., 2.
 Constance, Lake (Switzerland).—Regelmann, C.; Schmidle, W.
 Constantine (Algeria).—Andrée, K., 6; Joleaud, E.; Ternier, P., 3.
 Constantine (Greece).—Martel, P.
 Constantine Spring (Styria).—Beundorf, H.
 Constantza (Rumania).—Anastasiu, V.
 Contact - metamorphism, Barcelona.—Maier, W.
 —, Corsica.—Deprat, J., 4.
 —, ore-deposits &c.—Berg, G., 2; Kemp, J. F.; Purington, C. W.
 —, Pretoria Series.—Hall, A. L.
 —, Silesia.—Guerich, G.
 —, Thuringia.—Scheibe, R.
 Continents, erosion of.—Meunier, S., 3.
 —, origin of.—Love, A. E. H., 2; See, T. J. J.; Willis, B.
 Controller Bay (Alaska).—Martin, G. C.
Conularia.—Clarke, J. M.; Steinmann, G., 3.
 Cook Inlet (Alaska).—Paige, S.
 Coon Butte (Ariz.).—Fairchild, H. L.
 Coppaelian volcanoes, Rome.—Sabatini, V.
 Coppaelite.—Sabatini, V.
 Copper, absent in deep-sea deposits.—Nichols, H. W.
 —, Africa (South).—Lett, S. J.; Maucher, W.; Voit, F. W., 6.
 —, Alaska.—Brooks, A. H.; Wright, C. W.
 —, Anhalt.—Linstow, O. von.
 —, Bavaria, &c.—Schmidt, A., 2.
 —, British Columbia.—Keffe, F.
 —, California.—Liebenam, W. A.
 —, carbonate of.—Millosevich, F.; *see also* Malachite.
 —, Chile.—Keller, H. F.; *see also* CHILE.
 —, Colorado.—Ritter, E. A., 2.
 —, Dobrudsha.—Pascu, R.
 —, Fiji andesite.—Jensen, H. I.
 —, Finland.—Truett, O.
 —, Idaho.—Kemp, J. F., 3; Ransome, F. L., 6.
 —, Mannsfeld.—Zueckert, J. F.
 —, Montana.—Collen, M.; Simpson, J. F.
 —, Nevada.—Purington, C. W.
 —, New Jersey.—Lewis, J. V., 2.
 —, New South Wales.—Andrews, E. C.; *see also* NEW SOUTH WALES, Dep. Mines.
 —, Norway.—Bugge, C., 2.
 —, Peru.—Dueñas, E. I.
 —, Philippine Is.—Smith, W. D., 3.
 —, precipitation and origin of deposits.—Fernekes, G.
 —, Queensland.—Dunstan, B.; *see also* QUEENSLAND, Dep. Mines.
 —, Rhenish Prussia, basalt.—Brauns, R., 2.
 —, Servia.—Cornu, F., 9; Stevanović, S.

- Copper, South Australia.—See SOUTH AUSTRALIA, 1-3.
 —, Spain.—Pilz, R.
 —, Styria.—Cornu, F., 10.
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 Coral-beds, Ribice Tertiary.—Vadász, M. E., 3.
 Coral islands, origin of.—Edwards, W. H., 2.
 — reefs, Queensland.—Hedley, C.
 —, Red Sea.—Crossland, C.
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 —, Devonian.—Parks, W. A.; Steinmann, G., 3.
 —, evolution of.—Clarke, J. M., 3.
 —, Permo-Triassic.—Verbeek, R. D. M.
 —, Silurian.—Etheridge, R., *fil.*
 —, Tertiary.—Angelis d'Ossat, G. de; Chapman, F., 4; Oppenheim, P., 2; Pascoe, E. H., 4; Smith, W. D.; Steinmann, G., 6; Thomson, J. A., 2.
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 Corfino, Mte. (Tuscany).—Fucini, A., 5.
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 —, SWEDENBORG ON.—Sjögren, H.
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 —, Taal.—Bacon, R. F.
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 —, New Mexico.—Lee, W. T.
 —, Phlegrean Fields.—Lorenzo, G. de, 1 & 2.
 —, volcanic.—Anderson, R.; Vorwerg, O.
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 —, Astrakhan.—Archangelski, A.
 —, Athabasca R.—Bell, R.
 —, Austrian Alps.—Felix, J.; Maury, E.
 —, Bohemia.—Graber, H. V.; Hibsich, J. E.
 —, Boulonnais.—Briquet, A., 2; Gosselet, J., 8-11.
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 —, Caucasus.—Stolley, E., 2.
 —, Dalmatia.—Bukowski, G. von.
 —, English Channel.—Cole, G. A. J.
 —, Galicia.—Nowak, J.
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 —, Germany (N.).—Collet, L. W.; Kaunhowen, F., 3; Kœnen, A. von, 3; Stolley, E., 1 & 3.
 —, Grisons.—Baumberger, E., 3.
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- Cretaceous, Lille.—Gosselet, J., 7.
 —, Madagascar.—Boule, M., 3; Lemoine, P., 3.
 —, Montana.—Brown, B.; Fisher, C. A.
 —, Moravia.—Petrascheck, W.
 —, Morocco.—Brives, A.
 —, Meurthe-et-Moselle.—Nicklés, R.
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 —, New Mexico.—Keyes, C. R., 2.
 —, Paris Basin.—Regnault, E.
 —, Patagonia.—Favre, F.; Paulcke, W.; Steinmann, G., 6.
 —, Poland.—Michalski, A. O.
 —, Rhenish Prussia.—Holzapfel, E.
 —, Styria.—Schmidt, W.
 —, Switzerland.—Baumberger, E.
 —, Tierra del Fuego.—Steinmann, G., 2.
 —, Vendôme.—Filliozat, —.
 —, Voronetz Gov.—Dubjanski, A. A.
 —, Westphalia.—Bertling, R.; Hasebrink, A.
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 —, Ordovician.—Sardeson, F. W., 2.
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 —, Devonian.—Carpenter, G. H.
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 —, models for teaching.—Woolnough, W. G.
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 Cuckmere Haven (Sussex).—Martin, E. A.
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 —, Westphalia.—Denckmann, A., 3.
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- Cypellia*.—Oppliger, F.
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- Dachstein Dolomite, Tyrol.—Kober, L.
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—, absence of lead and copper in.—Nichols, H. W.
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- DEFRANCE Collection, Caen.—Bigot, A.
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—, Great Lakes Region, N. Am.—Robinson, H. H.
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—, Canada.—Clarke, J. M.; Matthew, G. F., 1-3; Parks, W. A.; Whiteaves, J. F.
—, Cape Colony.—Reed, F. R. C.
—, Carnic Alps.—Gortani, M.; Vinassa de Regny, P. E., 1 & 4.
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- Devonian, Namur.—Maillieux, E., 1, 2, 4-9.
 —, New South Wales.—Suessmilch, C. A., 2.
 —, New York.—Clarke, J. M.; Eastman, C. R.; Williams, H. S.
 —, Prussia.—Jäkel, O., 2; Kaunkowen, F., 3.
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 —, dates of Geological Survey maps of.—Woodward, H. B., 4.
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 —, New Jersey.—Lewis, J. V., 3.
 —, Rhenish Bavaria.—Reis, O. M.; Schuster, M.
 —, Silesia.—Berg, G.
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 —, artificial.—Anon., 35; Crookes, Sir W.
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- Dolomite, Bavaria.—Köhne, W., 2.
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 —, Venetia.—Del Campana, D.
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 —, Dublin Co.—Kilroe, J. R., 2.
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 —, St. Louis.—Drushel, J. A.
 —, Scilly Is.—Wuenssch, E. A.
 —, Yorkshire coast.—Sheppard, T.
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 —, Cretaceous.—Vredenburg, E. W., 2.
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- Franconian Forest.—Hess von Wichdorff, H., 4; Schmidt, A., 2.
 — Jura (Württemberg).—Köhne, W., 2; Neischl, A.
 Frankenstein (Darmstadt).—Klemm, G.
 Frant (Sussex).—Martin, E. A., 2.
 Fraserburg (Cape Colony).—Seward, A. C., 2.
 Frasnes (Hainault).—Maillieux, E., 7.
 Frasnian.—Fourmarier, P., 3; Maillieux, E., 1 & 6-9.
 Franz-Josefs Land (Arctic).—Backlund, II.
 FRESH-ARRHENIUS theory.—Kayser, E., 2; Philippi, E., 3.
 Freeren Clay, Tongres.—Mourlon, M., 3.
 Freiberg (Saxony).—Kolbeck, F., 1 & 3.
 Freiburg im Breisgau (Baden).—Wilckens, O.
 French Antarctic Expedition.—Gourdon, E.
 French Congo (W. Afr.).—Lacroix, A., 4.
 French Guinea (W. Afr.).—Romeu, A. de.
 Fretherne (Gloucester).—Richardson, L., 14.
 FREUDENBERG, W.—See Toula, F., 2.
 Freudenstadt (Würt.).—Schmidt, M., 2.
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 Friction, glaciers &.—Weinberg, B.
 Friedland (Pr.-Silesia).—Zimmermann, E., 5.
 Friesland.—Bielefeld, R.
 Friuli district (Venetia).—Kossmat, F.; Nievo, I.
 Froide-Veau, Mt. (Dinant).—Mourlon, M., 5.
 Fronds of Cycadophyta.—Arber, E. A. N., 2.
 Frutigen (Valais).—Bernet, E.
 Fucoids, Silurian.—Fritsch, A.
 Fuel-resources, West Virginia.—White, I. C.; see also Coal, Peat, &c.
 Fuerteventura (Canary Is.).—Finckh, L.
 Fuji Chain (Japan).—Omori, F., 14.
 Fuller's Earth.—Anon., 30.
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 Fumaroles, Etna & Vesuvius.—Lacroix, A., 8.
Furcifer.—Nordenskjöld, E.
Fusulina.—Schellwien, E.
 Fusulinidæ.—Staff, H. von.
 Gabbro, Dun Mt. (N.Z.).—Marshall, P., 3.
 —, Frankenstein (Darmstadt).—Klemm, G.
 —, Glatz.—Tannhäuser, F.
 —, Rhode I.—Warren, C. H.
 —, Urals.—Duparc, L., 4.
 Gader (Tyrol).—Kober, L.
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 Galena, Campine coal with.—Schmitz, G., 4; see also Lead.
 Galena Series, N. America.—Sardeson, F. W.
Galeropygus.—Paris, E. T.; Richardson, L., 15.
 Galicia (Austria).—Chambers, D. M.; Lewinski, J., 1 & 2; Loriński, W. von; Michael, R., 5; Nowak, J.; Piestrak, F.; Sevastos, R., 2; Uhlig, V., 1 & 2; Wiśniowski, T.
 Gâtine Hills (Poitou).—Welsch, J.
 Galla, Upper (Hungary).—Liffa, A.
 Gansbrunnen (Soleure).—Buxtorf, A., 3.
Gangamopteris.—Seward, A. C., 3.
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 Gapsted goldfield (Vict.).—Dunn, E. J., 38.
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 Gardelegen (Holstein).—Wieggers, F., 2.
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 Garleton Hills (Haddingtonshire).—Kendall, P. F., 2.
 Garnet-pyroxene, diamantiferous nodules of.—Corstorphine, G. S., 2.
Garumnaster.—Lambert, J., 2.
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 — (—), Athabasca R.—Harrison, A. H.
 — (—) in coal.—Trobridge, F. G.
 — (—), Kokshar I.—Mickvitz, A.
 — (—), Ontario.—Coste, E.; see also ONTARIO, Bur. Mines, 5.
 — (—), Silesia.—Petrascheck, W., 4.
 — (—), thermal waters with.—Moureu, C., 1 & 2.
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 Gastein Valley (Salzburg).—Stark, M.
 Gastropoda, Cretaceous.—Kitchin, F. L.; Pellat, E.
 —, Devonian.—Clarke, J. M.; Gortani, M.; Parks, W. A.; Steinmann, G., 3.
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 —, Triassic.—Wittenburg, P. von, 2.
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 Gata, Cape (Spain).—Pilz, R.
 Gattico tunnel (Lombardy).—Martinielli, A.
 GAUDRY, A., *Obit.*—See Anon., 6; Bouchard, C.; Woodward, A. S., 8.
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 —, Lippe Basin.—Bærtling, R.

- Gault. Mangyslak.—Sokolov, D. N., 3.
 —, Saratov.—Vasilevski, M. M.
 —, Vaud.—Jaccard, F., 2.
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 'Gauss' Antarctic Expedition.—Drygalski, E. von, 2.
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 Bresson, A.; Dixon, E. E. L.; Stuart-Menteath, P. W.
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Geinitzella.—Girty, G. H.
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 Gellivaara (Sweden).—Sjögren, H., 2.
 Gems.—*See* Precious stones, &c.
 Generic names, POLI'S.—Jukes-Browne, A. J., 2.
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 Geography, economic.—Chisholm, G. C.
 —, King OSCAR II. &—Nathorst, A. G., 5.
 —, physical.—Davis, W. M.
 —. *See also* Palæogeography.
 Geological Commission, Cape of Good Hope.—*See* CAPE COLONY, Dep. Agric., 1 & 2.
 — Department, Mysore.—*See* MY-SORE, Geol. Dep., 1-3.
 — Institute, Bologna.—*See* BOLOGNA.
 — map of North America.—Margerie, E. de.
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 —, Berlin.—Schmidt, C., 2.
 —, France.—Boistel, A.
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 —, Great Britain.—Woodward, H. B., 4; *see also* GREAT BRITAIN, Geol. Surv.
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 —. *See also* Bauxite, brown coal; borings, Hanover, Quaternary, &c.
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- Geysers, Mexico.—Caballero, G. de J., 2.
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 Ghergur (Algeria).—Bellows, E.
 Ghilou R. (Siberia).—Ivanov, M. M.
 Giant's kettle, Andranolava.—Kaudern, W.
 Gibbo R. (Victoria).—Murray, R. A. F.
Gibbula.—Lamothe, — de, 2; Steinmann, G., 6.
 Giessen (Hesse).—Schottler, W.
 Giesshübl (Lr. Austria).—Toula, F., 1 & 4.
Gigantopteris.—Yabe, H.
Gigantosauria.—Fraas, E., 3.
 Giglio I. (Tuscan Archip.).—Fucini, A., 2.
 Gippsland (Vict.).—Chapman, F., 6 & 7; Dunn, E. J., 18 & 40; Thiele, E. O.
 Gironde (France).—Fallot, E.; Repelin, J.
 Girvan* (Ayr).—Reed, F. R. C., 3.
Girvanella.—Chapman, F., 9.
 Glacial action, floods &.—Andrews, E. C., 2.
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 — —, Denmark.—Milthers, V.
 — —, Germany (N.).—Grupe, O.; Keilhack, K.
 — —, Holderness. — Sheppard, T., 2.
 — —, Indian Permian.—Koken, E.
 — —, Kansas.—Reagan, A. B., 2.
 — —, Lancashire.—Ffarington, M. H.
 — —, St. Louis less on.—Drushel, J. A.
 — —, Scilly Is.—Wuensch, E. A.
 — —, S. Australian Cambrian.—Basedow, H., 2; Howchin, W.
 — —, Tasmanian Cambrian.—David, T. W. E., 2.
 — —. *See also* Drift, Moraines, &c.
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 — erosion.—Brunhes, J., 3-5; Davis, W. M., 3; Hess, H., 3; Jefferson, M., 2; Solger, F., 2; Tarr, R. S., 2.
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 — lakes, Michigan Basin. — Goldthwait, J. W.
 — period, earth's shape during.—Rudski, M. P.
 — & Man.—Wright, G. F., 3.
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 — —, Persia.—Huntington, E.
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 — —, Switzerland.—Muehlberg, F.; Penck, A., 2; Zschokke, F.
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 Glaciation, Alpine.—Girard, R. de, 4; Penck, A., 1-3; Regelmann, C.
 — —, Cambrian.—Basedow, H., 2; Howchin, W.
 — —, Haddingtonshire.—Kendall, P. F., 2.
 — —, Liptau Mts.—Lucerna, R.
 — —, N. Germany.—Solger, F.
 — —, Norway.—Kolderup, C. F.; Reusch, H., 8.
 — —, Permo-Carboniferous.—David, T. W. E., 2; Davis, W. M., 4; Koken, E.
 — —, Piedmont.—Prever, P. L., 2.
 — —, Tagliamento Valley.—Nievo, I.
 — —, Tasmania.—Twelvvetres, W. H., 3.
 — —, Tyrol.—Ampferer, O., 3; Schulz, F. A. C.
 — —, Wales (S.).—Cantrill, T. C., 2.
 — —, Zürich.—Hug, J.
 Glacier (B.C.).—Ayres, W. S.
 Glacier, Erjias Dagh.—Philippon, A.
 — —, Lebanon.—Wright, G. F., 2.
 — —, motion of, on Mt. Rainier.—Le Conte, J. N.
 — — problems.—Hess, H.
 Glaciers, Alaska.—Tarr, R. S.
 — —, Antarctic.—Gourdon, E.
 — —, breaking-up of.—Mercanton, P. L.
 — —, Canada.—Vaux, G., *fil.*
 — —, Conference on, at Sulden.—Finsterwalder, S.
 — —, Ecuador.—Meyer, H.
 — —, Iceland.—Rabot, C.
 — —, Kashmir.—Workman, W. H.
 — —, Monte Rosa.—Dainelli, G.
 — —, movements of.—Weinberg, B.
 — —, New Zealand.—Fox, C. D.
 — —, Norway.—Eyen, P. A.; Rekstad, J., 1, 7, & 10.
 — —, Etzthal.—Hess, H., 2.
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 — —, ribboned structure in.—Forel, F. A.
 — —, Rocky Mts.—Reid, H. F.
 — —, Savoy.—Girardin, P., 1 & 2; Vallo, J.
 — —, Stubay Alps.—Lagally, M.
 — —, Styrian Alps.—Götzinger, G.
 — —, Switzerland.—Æberhardt, B., 2; Forel, F. A., 2.
 — —, variations of.—Bluemcke, A., 2; Bonney, T. G., 4; Brueckner, E.; Forel, F. A., 2; Eyen, P. A.; Rabot, C.; Reid, H. F., 2 & 3; Rekstad, J., 1, 7, & 10.
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Glandulina.—Issler, A.
 Glass broken by Vesuvian ashes.—Sabatini, V., 2.
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 Glauconiferous-schist, Conadale Range.—Jensen, H. I., 2.
 Gleichenberg (Styria).—Beundorf, H.; Leitmeier, H., 3.

- Gleissing (Bavaria).—Fink, W.
 Glen Wills (Vict.).—Dunn, E. J., 14.
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Glossina.—Clarke, J. M.
Glossites.—Chapman, F.
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Glossopteris.—Seward, A. C., 3.
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 —, Siberia.—Backlund, H., 2.
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 —, Tørnebohm, A. E.
 —, Taunus Mts.—Fritz, J.
 —, Ticino.—Königsberger, J.
 —, Tyrol.—Ohnesorge, T.
 Gnetales, Tertiary.—Arber, E. A. N., 3.
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 Gold, Alaska.—Brooks, A. H.; Collier, A. J., 2; Prindle, L. M.
 —, Amazon Valley.—Conway, Sir W. M., 2.
 —, Andes.—Reichert, F.
 —, Austria.—Ahlburg, —.
 —, Bohemia.—Želízko, J. V., 3.
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 —, Fichtelgebirge.—Schmidt, A.
 —, Finland.—Reusch, H., 3.
 —, Germany.—Degner, J. H.
 —, Hungary.—Gernet, A. von; Papp, K.
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 —, Nevada.—Ransome, F. L.
 —, New Guinea.—Liversidge, A., 2.
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 Gold, New Zealand.—Anon., 32 & 33;
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 —, Zambesi R.—Lett, S. J.
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 —, mining, ancient.—Freise, F., 2.
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 Göllnitz (Brandenburg).—Schmierer, T.
 Gömör Co. (Hungary).—Bæckh, H. von, 1 & 2; Illés, V.
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 Gorges, origin of.—Brunhes, J.

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- Grande do Sul, Rio (Brazil).—Woodward, A. S., 5.
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- , Basque Provinces.—Termier, P.
- , Calabria.—Crema, C.; Novarese, V., 2.
- , clay & sand from.—Dawkins, W. B., 2.
- , Corsica.—Termier, P., 5.
- , Dakota (South).—Ferguson, H. G.
- , Elba.—Aloisi, P.
- , Fichtelgebirge.—Buecking, H., 2.
- , Finland.—Sederholm, J. J., 1 & 2.
- , inclusions in.—Hunt, A. R., 3.
- , Jauer.—Guerich, G.
- , Meuse Valley.—Lapparent, J. de, 2.
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- , Riesengebirge orbicular.—Mueller, W.
- , Silesia.—Berg, G.
- , Styria.—Heritsch, F., 3.
- , Swedish spotted.—Geijer, P.
- , temperatures, tests of.—Hunt, A. R., 6.
- , Thuringia.—Scheibe, R.
- , Transvaal.—Merensky, H., 2; Sandberg, C. G. S., 4.
- , Valais.—Sandberg, C. G. S., 2.
- , Victoria.—Skeats, E. W., 3.
- Granitic dykes.—Lane, A. C., 5.
- , minerals, theories on.—Hunt, A. R., 2.
- , powder, experiments with.—Widman, R.
- Granodiorite, Victoria.—Skeats, E. W.
- Grant (Gippsland).—Dunn, E. J., 18-20.
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- Granulite, Sardinia.—Deprat, J.
- , gneiss.—Høegbom, A. G., 3.
- Graphite, Canada.—Cirkel, F.
- , inclusions, Siebengebirge basalt.—Brauns, R.
- , schist, Tuxedo Park (N.Y.).—Bayley, W. S.
- , India.—Holland, T. H., 1-3.
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- Gratz (Styria).—Heritsch, F.
- Gravel, classification by size.—Atterberg, A., 2.
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 —, Ontario.—Coleman, A. P., 4; Silver, L. P.; see also ONTARIO, Bur. Mines, 1-5.
 —, Piedmont.—Stella, A.
 —, Rhode I.—Johnson, B. L.
 —, Rumania.—Butureanu, V. C., 2.
 —, Styria.—Bauerman, H.
 —, Sweden.—Bærtling, R.; Sjægren, H., 2, 4, & 5.
 —, Urals.—Duparc, L., 4; Konou-shevski, L.
 —, Utah.—Leith, C. K., 3.
 —, Vosges.—Stutzer, O., 2.
 —, Wales.—Fearnside, W. G., 2.
 —, Westphalia.—Resow, —.
 —, Württemberg.—Fluhr, R.
 —, Wyoming.—Vallat, B. W.
 —. See also Pisolitic, &c.
 Iron Gates (Danube).—Cvijić, J.; Sevastos, R., 3.
 Iron-glance.—Færsterling, C.; see also Hamatite.
 —, meteoric.—See Meteoric.
 Iron Mine Hill (Rhode I.).—Johnson, B. L.
 —, ore-supplies.—Brough, B. H.
 —, origin of.—Johansson, H.
 Iron-pyrites, Ontario.—See ONTARIO, Bur. Mines, 5.
 —, Spain.—Pilz, R.
 Iron Springs District (Utah).—Leith, C. K., 3.
 Ironstone-nodules, splitting of.—Moysey, L.
 —, parallel structure in.—Sjægren, H., 3.
 Iroquois Beach (Ontario).—Coleman, A. P., 2.
 Irsa (Hungary).—Guell, W.
 Isaac, Port (Cornwall).—Reid, C., 3.
 Isculites.—Gemmellaro, G. G.
 Iserlohn (Westphalia).—Denckmann, A., 3; Sichterman, P.
 Isis.—Thomson, J. A., 2.
 Isodectus.—Williston, S. W., 4.
 Isonzo R. (Venetia).—Kossmat, F.
 Isotrimorphism, carnallite.—Bøke, H. E.
 Isset R. (Perm).—Nikitin, V.
 Istria.—Tonolo, A. R.
 Itala (Chile).—Schneider, J.
 Italy.—Ferber, J. J.
 —, Geological Society.—Anon., 25.
 —, palæogeography of.—Nicotra, L.
 — (Central), petrology of.—Chelussi, I.
 Ithome, Mt. (Greece).—Négiris, P., 2.
 Ivory, fossil.—Beyschlag, J. F.
 Ivory Coast (Guinea).—Chantard, J., 2.
 Iwôjima Group (Pacific).—Wakimiza, T.
 Jablonovi Mts. (Amur Gov.).—Ahnert, E.
 Jacobella.—Jeannet, A., 2.
 Jade, formation of.—Ktenas, C. A.
 Jadeite, Burma.—Bleek, A. W. G., 2.
 Jæderen district (Norway).—Reusch, H., 8.
 JAHN, E., *Obit.*—See Tietze, E., 3.
 Jaisco (Mex.).—Navarro, D. V.
 Jamaica (W.I.).—Cornish, V.
 Jamiouls (Hainault).—Bertiaux, A.
 Janeia.—Steinmann, G., 3.
 Japan.—Anderson, R.; Mitford, C. E. B.; Omori, F., 1-7, 10, 14-16, & 19; see also JAPAN, Imp. Geol. Surv.
 Jasmund (Rügen).—Philippi, E.
 Jasper, Victoria.—Dunn, E. J.
 Jauer (Pr.-Silesia).—Guerich, G.
 Java (D.E.I.).—Berwerth, F., 3; Branca, W., 6; Cool, H.; Elbert, J.; Martin, K.
 Jaws, reptilian and fish.—Jakel, O.
 Jefferson Co. (Ind.).—Culbertson, G.
 JESUP, M. K., *Obit.*—See Osborn, H. F., 7.
 Jet, origin of.—Spielmann, P.
 —, Yorkshire, &c.—Gothan, W., 3.
 Jiului Valley (Rumania).—Reinhard, M.
 Jodhpur State (India).—Fermor, L. L.
 Johannesburg (Transvaal).—Schwarz, E. H. L., 3.
 John o' Groat's zone, Old Red Sandstone.—Flett, J. S.
 Jolsva (Hungary).—Bæckh, H. von, 2.
 Jorullo (Mex.).—Villafana, A.
 Jotun Mts. (Norway).—Rekstad, J., 6.
 Jouvannetia.—Dalton, L. V.
 Joubrechikine Mine (N. Urals).—Duparc, L., 4.
 Jovites.—Gemmellaro, G. G.
 Judith River Formation (Alberta).—Lambe, L. M.
 Julius.—Grinnell, F., *fil.*
 Jura, French.—Bourgeat, —; Fournier, E., 3; Hermann, R., 2.
 —, Swabian.—Barth, C. G.
 —, Swiss.—Baumberger, E., 1 & 2; Buxtorf, A.; Fleury, E.; Jeannet, A., 1 & 2; Schaad, E.; Schardt, H., 1 & 2; Schmidt, C., 1 & 3; Struebin, K., 1 & 2.

- Jura, White (Würt.).—Weiger, K.
 Jurassic, Albania.—Renz, C., 4.
 —, Alsace.—Van Werveke, L., 7.
 —, Arabia.—Newton, R. B., 2.
 —, Bavaria.—Ammon, L. von.
 —, climate.—Kerner, F. von, 5.
 —, Dalmatia.—Bukowski, G. von;
 Kerner, F. von.
 —, Dutch East Indies.—Böhm, G., 2.
 —, Galicia.—Lewinski, J., 1 & 2.
 —, German East Africa.—Fraas, E.
 —, Gloucestershire, &c.—Richardson,
 L., 15.
 —, Greece.—Renz, C., 1, 2, & 4.
 —, Hungary.—Lœrenthey, I.; Pálffy,
 M. von, 4; Uhlig, V., 2.
 —, Ionian Is.—Renz, C., 5.
 —, Kotelný I.—Nathorst, A. G.
 —, Languedoc.—Roman, F., 2.
 —, Lyonnais.—Riaz, A. de.
 —, Meurthe-et-Moselle.—Nicklés, R.
 —, Moravia.—Oppenheimer, J.
 —, Nepal.—Holland, Sir T. H., 5;
 Reed, F. R. C., 2.
 —, Norway.—Vogt, J. H. L., 2.
 —, Pennine Alps.—Siemiradzki, J.
 von.
 —, Poland.—Koroniewicz, P.; Le-
 winski, J., 3; Michalski, A. O.
 —, Portugal.—Choffat, P., 1 & 2.
 —, Swabian Alps.—Barth, C. G.;
 Gaub, F., 1 & 2; Isler, A.
 —, Tyrol.—Dal Piaz, G.
 —, Victoria.—Chapman, F., 8; Dunn,
 E. J., 29; Woodward, A. S.
 —, Vienna Basin.—Toula, F., 1 & 4.
 —, Württemberg.—Epstein, L.; *see*
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 Jütland (Denmark).—Milthers, V.
 Juvavites.—Gemmellaro, G. G.
 Kabinda (Congo Basin).—Cornet, J., 6.
 Kachin Hills (Upper Burma).—Bleek,
 A. W. G., 1 & 2.
 Kadri Taluks (Mysore).—Sampat Iyen-
 gar, P., 3.
 Kadur (Mysore).—Slater, H. K.
 Kaersutite, Linosa I., & Greenland.—
 Washington, H. S., 2.
 Kainach (Styria).—Schmidt, W.
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 Kakanui (N.Z.).—Thomson, J. A., 2.
 Kakuk Hills (Hungary).—Zimányi, K.
 Kalisz Gov. (Russia).—Reh binder, B.
 Kaltenleutgeben (Austria).—Richarz,
 P. S., 3.
 Kamčatka (E. Asia).—Karpinski, A.
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 Kander Valley (Switzerland).—Baltzer,
 A.
 Kangaroo Flat (Victoria).—Whitelaw,
 H. S.
 Kangaroo footprints, Australia.—Nøet-
 ling, F.
 Kansas (U.S.A.).—Green, F. C., 2; Ha-
 worth, E.; Reagan, A. B., 2; Stern-
 berg, C. H.
 Kaolin, Canada.—Romanet du Caillaud,
 F.
 —, Georgia.—Veatch, O.
 —, Halle a. S.—Selle, V.
 —, origin of.—Hickling, G., 2; Roesler,
 H.; Strennie, H., 3.
 Kaolinite.—Dick, A. B.; Hess von Wich-
 dorf, H., 3; Milch, L.
 Kaolinization, W. England rocks.—But-
 ler, F. H.
 Kapfenstein (Styria).—Heritsch, F., 2.
 Karawanken Alps (Austria).—Hœfer,
 H.
 Karlstein (Bern).—Studer, T., 2.
 Karna (Transylvania).—Roth von Te-
 legd, L., 2.
 Karpinskya.—Gortani, M.
 Karroo Formation, Cape Colony.—Broili,
 F., 2; Seeley, H. G., 1, 4-8.
 Karst phenomena, Galicia & Podolia.—
 Lorinsky, W. von.
 Karwendelgebirge (Swabia).—Ampferer,
 O.
 Karwin (Silesia).—Petrascheck, W., 4.
 Kasaan Penin. (Alaska).—Wright, C.
 W.
 Kashmir (India).—Workman, W. H.
 Kassai R. (Congo Basin).—Cornet, J., 5.
 Kayes (Senegambia).—Lemoine, P., 2.
 Kebed (Hungary).—Szontagh, T. von.
 Kellerjoch (Tyrol).—Ohnesorge, T.
 KELVIN, Baron, *Obit.*—*See* Anon., 20.
 Kendeng (Java).—Elbert, J.
 Kent.—Anon., 26 & 31; Bennett, F. J.;
 Breton, L., 11; Chandler, R. H.;
 Gore, W.; Handcock, E. W.; Holmes,
 T. V.; Lamplugh, G. W.; Lydekker,
 R., 8; Martin, E. A., 3; McDakin,
 J. G.; Sills, S.; Sherborn, C. D., 4;
 Whitaker, W., 1 & 2; Woodward,
 A. S., 3; Young, E. C.; *see also*
 LONDON, S.E. Union Sci. Soc.
 Kentucky (U.S.A.).—Stone, R. W.
 Kerguelen I. (Antarctic).—Drygalski,
 E. von, 2.
 Kerosene Shale, N.S.W.—*See* NEW
 SOUTH WALES, Dep. Mines.
 Kerry (Ireland).—Cole, G. A. J., 3; Joly,
 J.
 Kerschken (E. Prussia).—Hess von
 Wichdorf, H., 2.
 Kesslerloch cave (Schaffhausen).—Hei-
 erli, J.
 Kettenjura (Switzerland).—Buxtorf,
 A.
 Keuper, Alsace.—Benecke, E. W.
 —, Cheshire.—Beasley, H. C.
 —, Leicestershire.—Bosworth, T. O.;
 Horwood, A. R., 3.
 —, Silesia.—Michael, R., 3.
 —, Swabia.—Zeller, F.
 —, Thuringia.—Meinecke, F.; Nau-
 mann, E.
 —, Worcestershire.—Wills, L. J.
 —. *See also* Trias.
 Keuper Marls, Bardon Hill.—Keay, W.
 — Sandstone, mineralogical consti-
 tution of.—Cullis, C. G.

- Keuper Marls, Warwickshire.—Huene, F. von, 6.
- Keweenaw Point (Mich.).—Lane, A. C.
- Kharga Oasis (Egypt).—Beadnell, H. J. L.
- Khasi Hills (Assam).—Jackson, F. E.
- Kiama (N.S.W.).—Suessmilch, C. A.
- Kien Valley (Switzerland).—Baltzer, A., 2; Trösch, A.
- Kiirunavaara (Sweden).—Geijer, P.; Sjögren, H., 2.
- Kikondia (Congo Basin).—Cornet, J., 6.
- Kilkenny (Ireland).—Carpenter, G. H.
- Killakee Valley (Dublin).—Hinch, J. de W.
- Kiltoran (Kilkenny).—Carpenter, G. H.
- Kimberley (Cape Colony).—Bonney, T. G., 3.
- Kimberlite, diamantiferous nodules in.—Corstorphine, G. S.; Harger, H. S.
- dykes & pipes, S. Africa.—Bonney, T. G., 3; Dessauer, A. von; Harger, H. S., 2; Hatch, F. H., 2; Krause, H. L.; Sandberg, C. G. S., 5; Taylor, W.
- Kinderhook Formation, Iowa.—Eastman, C. R., 2.
- King R. (Vict.).—Dunn, E. J., 36.
- King Charles Land (Arctic).—Backlund, H.; Gothan, W.
- Kionoceras*.—Clarke, J. M.
- Kirchberg (Tyrol).—Amperferer, O., 4.
- Kirchhauser Valley (Hesse).—Klemm, G., 2.
- Kirchheim Alps (Würt.).—Weiger, K.
- Kirk's Reef (Vict.).—Dunn, E. J., 31.
- Kis (Hungary).—Illés, V.
- Kislovodsk (Terek).—Ogilvie, A. N., 1 & 2.
- Kitchen-middens, Cornwall. — Bullen, R. A.
- Kitzbühl Mt. (Tyrol).—Ohnesorge, T.
- KLEIN, J. F. C., *Obit.*—See Geikie, Sir A.
- Klipfontein Farm, Fraserburg (Cape Colony).—Seward, A. C., 2.
- Klippen, Bavaria.—Tornquist, A., 1 & 2.
- , Carpathians.—Bergeron, J.
- , Moravia.—Petrascheck, W.
- , Pennine Alps.—Siemiradzki, J. von.
- Kloet crater-lake (Java).—Cool, H.
- Klondike (N.W. Canada).—McConnell, R. G.; Tyrrell, J. B.
- Knockmill (Kent).—Chandler, R. H.
- Knoppite.—Chernik, G. P.
- Knox Co. (Maine).—Bastin, E. S.
- Koshkar I. (Baltic).—Mickvitz, A.
- Kola Peninsula (Lapland).—Sederholm, J. J.
- Kolar goldfield (Mysore).—Smeeth, W. F.
- Kollatz (Pomerania).—Finckh, L., 2.
- Komarovo Mines (Orenburg, &c.).—Konnushevski, L.
- Koneza (Hungary).—Halaváts, J., 2.
- König Karl-Land.—See King Charles Land.
- Koninckophyllum*. — Matley, C. A.; Sibby, T. F.
- Kootenay Formation, Montana.—Fisher C. A.
- Korea (E. Asia).—Yabe, H.
- Körös, Black, R. (Hungary).—Kadić, O., 2.
- , White, R. (Hungary).—Papp, K.
- Korumburra (Vict.).—Dunn, E. J., 29.
- Kotelny I. (Arctic).—Nathorst, A. G.
- Kraai R. (Cape Colony).—Seeley, H. G., 5.
- Krapina (Croatia).—Gorjanović-Kramberger, D., 2.
- Krassó-Szőreny Co. (Hungary).—Schafarzik, F.
- Kraszmahorkaváralja (Hungary).—Reguly, E.
- Kremsier (Moravia).—Petrascheck, W.
- Kreszulya (Hungary).—Szontagh, T. von, 2.
- Kridthavet (Bornholm).—Grönwall, K. A.
- Kröhnkite, Chile.—Palache, C.
- Krugsdorp (Transvaal).—Hall, A. L., 5.
- Kublank (Pomerania).—Wunstorf, W.
- Kuchar (Chinese Turkestan).—Vailant, L., 2.
- Kudzsir (Hungary).—Lackner, A.
- Kumaon (Himalayas).—Cotter, G. de P., 4.
- Kurdistan (Asia Minor).—Simmersbach, B.
- Kuruman (Cape Colony).—Rogers, A. W.
- Kwatatboahegan R. (Ont.).—Parks, W. A.
- Kyoto (Japan).—Omori, F., 3.
- Labidosaurus*.—Broili, F., 4.
- Labrodon*.—Chapman, F., 11.
- Labyrinthodon*.—Woodward, A. S., 9.
- Labyrinthodontia, Permian.—Broom, R., 4; Seeley, H. G., 4 & 8.
- Lacave (Lot).—Viré, A.
- Laccolites, Norway.—Vogt, J. H. L.
- , origin of.—Pöhlig, H., 4.
- Ladock Quarry (Cornwall).—Sherborn, C. D., 3.
- Ladoga Lake (Russia).—Truustedt, O.
- Lake-deposit, Loch Ness.—Lee, G. W., 3.
- , Pomerania.—Lehmann, F. W. P., 2.
- Lakes, crater.—Vorwerk, O.
- , Ohio, ancient.—Hubbard, G. D., 2.
- , Swiss, forms of—Endroes, A.
- LAMARCK types.—Bigot, A.
- Lamellated minerals.—Høegbom, A. G., 2.
- Lamellibranchiata, Carboniferous. — Fraipont, C., 5; Kœnen, A. von, 2; Schmidt, A., 3 & 4.
- , Cretaceous.—Douvillé, H.; Jukes-Browne, A. J., 3; Kitchin, F. L.;

- Pellat, E.; Peron, P. A.; Sokolov, D. N., 3; Woods, H., 1 & 2.
- Lamellibranchiata, Devonian.—Clarke, J. M.; Drevermann, F.; Parks, W. A.; Reed, F. R. C.; Steinmann, G., 3.
- , Jurassic.—Cossmann, M., 2; Newton, R. B., 2.
- , Permian.—Schmidt, A., 4.
- , Permo-Triassic.—Diener, C., 5.
- , Silurian.—Chapman, F., 2.
- , Tertiary.—Arnold, R., 2; Cerulli-Irelli, S.; Cossmann, M.; Dalton, L. V.; Jukes-Browne, A. J., 3; Oppenheim, P., 2; Pascoe, E. H., 2; Rovereto, G.; Steinmann, G., 6; Teisseyre, W.; Thomson, J. A., 2; Toulou, F., 5; Ugolini, R.; Vredenburg, E. W., 7.
- , Triassic.—Del Campana, D.; Wittenburg, P. von, 2.
- Lancashire.—Dawkins, W. B.; Dickinson, J.; Ffarington, M. H.; Jackson, J. W.; Lydekker, R., 9; Reade, T. M., 2.
- Lancefield (Vict.).—Hall, T. S., 3.
- Land, changes of level of.—Baldwin, W.; Fisher, O.; Fox, C. D.; Hobbs, W. H.; Jamieson, T. F.; Omori, F., 5 & 6.
- , deposits, climate &. —Barrell, J., 2.
- , sunken Atlantic.—Poole, H. S., 4.
- Landenian, Aisne.—Vinchon, A.
- , Belgium.—Vincent, E.; *see also* Tertiary &c.
- Landslips, Bergen.—Reusch, H., 6.
- , Dorset.—Anon., 34.
- , Notre-Dame de la Salette.—Ells, R. W., 3.
- , origin of.—Ržehák, A.
- , Switzerland.—Baltzer, A., 2; Gremaud, A.
- , Tyrol.—Stiný, J.
- Landwasser R. (Switzerland).—Eisenmenger, G., 2.
- Langbeinite.—Nacken, R.
- Langkofel (Tyrol).—Gordon, M. M. O.
- Languedoc (S. France).—Laurent, A.; Roman, F., 1 & 2.
- Laos (Siam).—Macey, P.
- LAPPARENT, A. de, *Obit.*—*See* Anon., 10; Geikie, Sir A., 3; & Pervinquier, L., 3.
- Lappwald (Hanover).—Wollemann, A., 3.
- Lapuzg (Transylvania).—Kadić, O., 3.
- Lar (Persia).—Wilson, A. T.
- Laramie, Montana.—Whitfield, R. P.
- Larder, Lake (Ontario).—*See* ONTARIO, Bur. Mines, 5.
- Lasiograptus*.—Elles, G. L.; Ruedemann, R.
- Laterite, Germany.—Kilroe, J. R.
- , Ireland.—Cole, G. A. J., 4.
- , origin of.—Chautard, J., 3.
- Latial Hills (Rome).—Rosati, A.
- Latitude in relation to earthquakes.—Knott, C. G., 2.
- Lauenburg (Prussia).—Gagel, C.
- Laurentian, Canada.—Adams, F. D., 1 & 2.
- Lausanne (Switzerland).—Andrews, K.
- Lausen (Basel).—Struebin, K.
- Lauterbrunnen Valley (Switzerland).—Baltzer, A.; Gerber, E.
- Lautoka (Fiji).—Jensen, H. I.
- Lavas, Etna.—Lacroix, A., 5, 7, & 8.
- , oceanic leakage &. —*See*, T. J. J., 2.
- , origin of ammonia in.—Sommerfeldt, E., 4.
- , Savaii.—Jensen, H. I., 3.
- Laverda (Venetia).—Ravagli, M., 2.
- Law, R., *Obit.*—*See* Anon., 11; & Geikie, Sir A.
- Lawa (Dutch Guiana).—Middelberg, E.
- Laziali.—*See* Latial.
- Lazur (Hungary).—Szontagh, T. von.
- Lead, absence in deep-sea deposits.—Nichols, H. W.
- , Austria.—Ahlburg, —.
- , Carinthia.—Himmelbauer, A.
- , Damaraland.—Maucher, W.; Stutzer, O., 3.
- , Idaho.—Ransome, F. L., 6.
- , Illinois.—Grant, U. S.
- , Oklahoma.—Gould, C. N.
- , Peru.—Dueñas, E. I.
- , Spain.—Pilz, R.
- , Tasmania.—Ward, L. K.
- , Transvaal.—Johnson, J. P., 3.
- , Tyrol.—Canaval, R.
- Lebanon glacier (Syria).—Wright, G. F., 2.
- Lebetodiscus*.—Bather, F. A., 4.
- Lecanites*.—Arthaber, G. von.
- Leda*.—Arnold, R., 2; Steinmann, G., 3.
- Leesbergite.—Blum, L.; Bruhns, W., 2.
- Leghorn district (Tuscany).—Lotti, B., 6; Stefani, C. de.
- LEHMANN'S petrographical microscope.—Muegge, O., 2.
- Leicestershire.—Bennett, F. W.; Bosworth, T. O.; Horwood, A. R., 1, 3-6; Keay, W.; Lydekker, R., 11; Richardson, L., 9; Stracey, B.; Strangways, C. F., 2.
- Leidyosuchus*.—Lambe, L. M.
- Leighton Buzzard (Beds).—Lamplugh, G. W., 3.
- Leipzig (Saxony).—Hess von Wichdorff, H., 3.
- Leitha Mts. (Hungary).—Richarz, P. S., 2.
- LEMOINE, P.—*See* HAUG, É.
- Lemurs, Miocene.—Abel, O., 2.
- , subfossil, Madagascar.—Lorenz, L. von; Standing, H. F.
- Lena R. district (Siberia).—Gerasimov, A. P., 1 & 2; Obruchev, V. A.
- Lengerich (Westphalia).—Hasebrink, A.
- Lenne R. (Westphalia).—Sichtermann, P.
- Lenne Slates, Westphalia.—Denckmann, A.

- Lennick - Saint - Quentin (Brabant).—Halet, F.
 Leonessa (Abruzzo).—Lotti, B., 5.
Leopoldia.—Favre, F.; Sayn, G.
Lepidocyclina.—Douvillé, H., 3; Douvillé, R., 2 & 3.
Lepidodendron.—Seward, A. C., 3; Zalesski, M. D.
Lepidotus.—Woodward, A. S., 2.
 Lepontine Alps.—Eisenmenger, G.; *see also* Alps.
Leptaena.—Schmidt, F.
Leptocelia.—Steinmann, G., 3.
Leptodomus.—Chapman, F., 2.
Leptograptus.—Ruedemann, R.
Leptostrophia.—Clarke, J. M.
Lepus.—Matthew, W. D.
 Leszczyny Flysch fauna (Galicia).—Wiśniowski, T.
 Letchworth Park (N.Y.).—Clarke, J. M., 4.
 Letmathe (Westphalia).—Denckmann, A., 3.
 Lettenkohle fauna, Swabia.—Zeller, F.
 Lewis Co. (N.Y.).—Bendrat, T. A.
 Lewinsite.—Hussak, E.
 Lévy, Nagy (Hungary).—Horusitzky, H.
 Lherzolite boulders, Orange R. Colony.—Johnson, J. P., 1 & 2.
 Liakhov Is.—*See* New Siberian Is.
 Lias, Algeria.—Daresté de la Chavanne, J.; Savornin, J.
 —, Bohemia.—Till, A.
 —, Dalmatia.—Kerner, F. von.
 —, Dorset.—Woodward, H. B.
 —, Gloucestershire.—Paris, E. T.; Richardson, L., 14.
 —, Hungary.—Vadász, M. E., 2 & 4.
 —, Leicestershire.—Horwood, A. R., 1 & 4.
 —, Luxemburg (Belgian).—Jérôme, A.
 —, Montpellier.—Roman, F., 2.
 —, Rome.—Clerici, E.
 —, Somerset.—Paris, E. T.
 —, Swabia.—Issler, A.
 —, Vienna Basin.—Toula, F., 4.
 —, Warwickshire.—Woodward, A. S., 3.
 —, Worcestershire.—Paris, E. T.; Richardson, L., 2.
 —, Württemberg.—Tornquist, A., 3.
 Liau Mts. (Hungary).—Lucerna, R.
 Liberia (W. Afr.).—Parkinson, J.
 Libraries of London.—Rye, R. A.
Lichas.—Clarke, J. M.
 Lickey Hills (Worcester).—Humphreys, J., 1 & 2.
 Licques district (France).—Gosselet, J., 9 & 10.
 Liège (Belgium).—Deltenre, H., 1 & 2; Dorlodot, H. de, 1 & 2; Forir, H., 2; Fourmarier, P., 2-5; Fraipont, C., 1-3 & 5; Lohest, M.; Simoëns, G., 6; Velge, G., 2 & 3.
 Lièvre R. (Quebec).—Ells, R. W., 3.
 Life, origin of, on earth.—Clarke, J. M., 3; Walther, J.
 Lightning, rocks shattered by.—Barnett, V. H., 3.
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 —, Mississippi.—Brown, C. S.
 —, Philippine Is.—Campbell, M. R., 3.
 —, Tuscany.—Merciai, G.; Novarese, V.
 —, United States.—Campbell, M. R., 3 & 4.
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 —, igneous rock.—Deprat, J., 2 & 3.
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 —, Quaternary.—Bach, F.; Brown, B., 3; Gilmore, C. W.; Kaudern, W.; Major, C. I. F., 1 & 3; Pavlov, M., 1 & 2; Pohl, H., 2; Portis, A.; Rausenberger, J.; Siegfried, H.; Staudinger, W.; Toula, F., 3 & 6; Wollemann, A., 1 & 3.
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 S.

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Oswald, F.

ASIA.

ARABIA. Sinai. $\frac{1}{250,000}$. 1907.—
Barrois, T.

CHINA. Yang-tzi-kiang Gorges. $\frac{1}{250,000}$.
1908.—Abendanon, E. C.

DUTCH EAST INDIES. Java. Kloet
Crater-Lake. $\frac{1}{500}$. 1908.—Cool, H.

— Molucca Is. $\frac{1}{3,000,000}$. 1908.—
R. D. M. Verbeek.

INDIA. Burma. Magwe District,
Wetchok-Yedwet Dome. 1 inch =
1 mile. 1908.—Pascoe, E. H.

— Taungtha Hills. 1 inch
= 1 mile. 1908.—Cotter, G. de
P.

— Thabyemyoung. 1
inch = 9 miles. 1908.—Dalton, L.
V.

— Dharwar, Hyderabad, & Mysore
Gold Districts (*various*). 1908.—
Maclaren, M.

— Mysore. Challakera & Sira
Districts. 1 inch = 4 miles. 1907.—
Sampat Iyengar, P.

— Hassan & Tumkur
Districts. 1 inch = 4 miles. 1907.—
Sampat Iyengar, P.

— Kolar Goldfield, Mysore
Mine, Edgar's Shaft. 1 inch = 2
miles. 1908.—Smeeth, W. F.

— Seringapatam. 1 inch
= 2 miles. 1907.—Sampat Iyengar,
P.

— Shimoga & Tarikere
Districts. 1 inch = 1 mile. 1907.—
Slater, H. K.

— Srinivasapur & Kadri
Districts. 1 inch = 4 miles. 1907.—
Sampat Iyengar, P.

JAPAN. Imperial Geological Survey.
Geological map. $\frac{1}{2,000,000}$.

Zone 8, Col. ii. Kamiagata, by
D. Satō. 1908.

Zone 13, Col. x. Suzumisaki, by
T. Ogawa. 1907.

Zone 15, Col. xiii. Sendai, by N.
Kanehara. 1908.

MALAY STATES. 1 inch = 20 miles.
1908.—Scrivenor, J. B.

SIBERIA. Amur District. Buréia
R. 1 inch = 10 versts. 1906.—
Khlaponin, A.

— Buréia Basin. 1 inch
= 3¼ miles. 1907.—Khlaponin,
A.

— Great Oldoi & Ghilu
Rivers. 1 inch = 10 versts. 1906.—
Ivanov, M. M.

— Stanovoi Mts. $\frac{1}{210,000}$.
1908.—Ahnert, E.

— Tukuringra Range.
1 inch = 20 versts. 1906.—Rippas,
P.

— Upper Zeia R. 1 inch
= 10 versts (or $\frac{1}{20,000}$). 1906.—
Ahnert, E.

ASIA.

SIBERIA. Lena District. Zone iv. Col. 1 & 2. 1 inch = about $\frac{3}{4}$ mile.

1907.—Obruchev, V. A. $\frac{1}{42,000}$ & $\frac{1}{810,000}$ 1907.—Gerasimov, A.

— Yenisei Gov. $\frac{1}{42,000}$ Zone i. Cols. 8 & 9. 1908.—Meister, A.

TIBET (Central). Provinces of Tsang and Ü. 1 inch = 8 miles. 1907.—Hayden, H. H.

AUSTRALASIA.

NEW SOUTH WALES (*various*). 1908.—See NEW SOUTH WALES, Dep. Mines.

— Barton. $1\frac{3}{4}$ inch = 1 mile. 1907.—

— Drake Gold & Copper Field. 1 inch = 30 chains. 1908.—Andrews, E. C.

— Hunter River Coalfields. 1 inch = 1 mile; & part of Maitland Coalfield, 1 inch = 20 chains. 1907.—David, T. W. E.

— Nandewar Mts. District. 1 inch = 6 miles; & 1 inch = 4 miles. 1908.—Jensen, H. J.

— Western Coalfield (*various*). 1908.—Carne, J. E.

NEW ZEALAND. Geological Survey. Colville, Moehau & Harataunga Districts; Coromandel District; and Otama District: all three, 1 inch = 1 mile. 1907.—Fraser, C.

— North I. 1 inch = 60 miles. 1908.—Marshall, P.

— Otago (*various*). 1908.—See Park, J.

QUEENSLAND. West Morton, &c. 1 inch = 1 mile; & 1 inch = 10 chains. 1907.—Cameron, W. E.

SOUTH AUSTRALIA. Northern Territory. 1 inch = 20 miles. 1908.—See SOUTH AUSTRALIA, Northern Territory.

TASMANIA. Mt. Farrell Mining Field. 1 inch = $\frac{1}{2}$ mile. 1908.—Ward, L. K.

VICTORIA (*various*). 1908.—See VICTORIA, Dep. Mines.

— Buffalo Mts. 1 inch = 30 chains. 1908.—Dunn, E. J., 45.

— Heathcote District. 2 inches = 1 mile. 1908.—Skeats, E. W.

— Moorooduc District. 1 inch = $1\frac{1}{3}$ miles. 1908.—Skeats, E. W.

— Tatong District. 1 inch = 1 mile. 1908.—Summers, H. S.

— Whittlesea District. 1 inch = 2 miles. 1908.—Jutson, J. T.

WESTERN AUSTRALIA. Murchison Goldfield: Cue, Cuddingwarra, & Day Dawn. 4 inches = 1 mile. [3 maps.] 1907.—Woodward, H. P.

— Pilbara Goldfield (*various*). 1908.—Maitland, A. G.

ATLANTIC.

CANARY Is. Las Palmas. $\frac{1}{50,000}$ 1908.—Gagel, C.

ICELAND. $\frac{1}{2,000,000}$ 1908.—Pjetursson, H.

— (*various*). 1908.—Sapper, K.

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AUSTRIA - HUNGARY. K.-k. geologische Reichsanstalt. Geologische Karte der im Reichsrath vertretenen Königreiche und Länder der Österreichisch - Ungarischen Monarchie. Lief 7. 1907.

Zone 10. Kol. xv. N.W. Gruppe. No. 85. Auspitz.—C. M. Paul & L. von Tausch.

Zone 13. Kol. xiii. S.W. Gruppe. No. 6. St. Polten.—A. Bittner & C. M. Paul.

Zone 14. Kol. xii. S.W. No. 13. Gaming.—A. Bittner & C. M. Paul.

Zone 15. Kol. viii. S.W. No. 18. Hallein.—Tietze, E.

Zone 21. Kol. viii. S.W. No. 93. Cilli.—Tietze, E.

Zone 21. Kol. xiii. S.W. No. 94. Rohitsch.—Dreger, J.

AUSTRIA (Lower). Payerbach-Reichenau District. Edlach. $\frac{1}{25,000}$ 1907.—Redlich, K. A.

— (Upper & Lower). Grossau & Gresten. $\frac{1}{1,000,000}$ & $\frac{1}{75,000}$ 1908.—Trauth, F.

— Galicia. Krzeszowice, &c. $\frac{1}{75,000}$ 1907.—Michael, R.

— Moravia. Rossitz. $\frac{1}{125,000}$ 1907.—Suess, F. E.

— Styria. Eisenerzer Alp. 1 inch = $4\frac{1}{2}$ miles. 1907.—Baerman, H.

— —. Flamberg. $\frac{1}{25,000}$ 1908.—Terzaghi, K. von.

— —. Kainach Mt. 1 inch = about $\frac{1}{2}$ mile. 1908.—Schmidt, W.

— —. Kainberg. $\frac{1}{25,000}$ 1908.—Leitmeier, H.

— Tyrol. $\frac{1}{700,000}$ 1907.—Blaas, J.

— —. Ampezzo or Cortina Dolomites. $\frac{1}{75,000}$ 1908.—Kober, L.

— —. Eastern Alps, &c. $\frac{1}{1,500,000}$ 1907.—Ahlburg, —.

— —. Gaisberg. $\frac{1}{50,000}$ 1907.—Amperferer, O.

— —. Gosau. $\frac{1}{50,000}$ 1908.—Felix, J.

— —. Kellerjoch & Kitzbühl Mts. $\frac{1}{112,000}$ 1908.—Ohnesorge, T.

— —. Etz Valley & Sesvenna Group. $\frac{1}{100,000}$ 1908.—Hammer, W.

— —. Ortler & Ciavalsch Districts. $\frac{1}{75,000}$ 1908.—Hammer, W.

— —. Tarnthal Mass. $\frac{1}{37,500}$ 1908.—Young, A. P.

EUROPE.

- BOSNIA. Ugljevik Coalfield. $\frac{1}{60,000}$. 1907.—Katzner, F.
- HUNGARY. Alföld Plain. 1 inch = about 25 miles. 1907.—Treitz, P.
- , Bihar Mountains. $\frac{1}{170,000}$. 1908.—Lachmann, R.
- , Little Carpathians & Hainburg Mts. $\frac{1}{50,000}$. 1908.—Richardz, P. S.
- , Maros Valley near Algyógy. $\frac{1}{150,000}$. 1907.—Pálffy, M.
- , Miskolcz. $\frac{1}{125,000}$. 1907.—Papp, K.
- , Petroleum & asphalt localities. 1 inch = about 25 miles. 1907.—Posewitz, T.
- , Rumania & Servia. Iron Gates district. $\frac{1}{200,000}$. 1908.—Cvijić, J.
- BELGIUM. Service de la Carte géologique de la Belgique. Carte géologique. $\frac{1}{40,000}$. M. Moulon, Directeur. Sheets 1-86, 88, 89, 91-107, 109-132, 136-142, 148-151, 153, 156-174, 176, & 177. 1893-1905.
- , —. $\frac{1}{1,000,000}$. 1907.—Baum, —.
- , Liège. Angleur. $\frac{1}{10,000}$. 1908.—Fourmarier, P.
- , Namur. Biron. $\frac{1}{20,000}$. 1908.—Soreil, G.
- , Senne & Sennette Valleys, Cambrian & Silurian. $\frac{1}{40,000}$. 1908.—Cuvelier, E.
- BAVARIA. Ranna. $\frac{1}{50,000}$. 1908.—Schwager, A.
- , See also Rhemish Bavaria.
- , &c. Allgäu & Vorarlberg Flysch Zone. $\frac{1}{75,000}$. 1908.—Tornquist, A.
- BOHEMIA. Mittelgebirge. Teplitz-Boreslau. $\frac{1}{25,000}$. 1908.
- DENMARK. N.W. Zealand. $2\frac{1}{2}$ inches = 19 miles. 1907.—Milthers, V.
- FINLAND, &c. Fenno-Scandia. $\frac{1}{8,000,000}$. 1908.—Sederholm, J. J.
- FRANCE. Service de la Carte géologique. Carte géologique détaillée de la France. $\frac{1}{80,000}$. Aug. M. Lévy (Directeur).
240. Tarbes, par L. Carez. 1908.
242. Pamiers, par G. Vasseur. 1908.
255. Perpignan, par C. Depéret. 1908.
- , Alpes - Maritimes. Paillon Valley. $\frac{1}{50,000}$. 1907.—Maury, E.
- , Clay-Deposits (various). 1908.—Laville, —.
- , Deux-Sèvres. Parthenay, &c. 1 inch = 12 miles. 1908.—Welsch, J.
- , Foldings of Strata in Southern. $\frac{1}{400,000}$. 1908.—Bertrand, M.
- , Meurthe & Moselle. $\frac{1}{200,000}$. 1907.—Nicklès, R.
- , Puy-de-Dôme. $\frac{1}{320,000}$ & $\frac{1}{500,000}$. 1908.—Glangéaud, P.

EUROPE.

- FRANCE. Pyrenees. Gavarnie District. 1 inch = about 4 miles. 1908.—Dixon, E. E. L.
- GERMANY.
- ALSACE-LORRAINE. Tectonic map. $\frac{1}{400,000}$. 1907.—Van Werveke, L., 2.
- , Rufach. $\frac{1}{25,000}$. 1908.—Kranz, W.
- ANHALT. Konnern Copper - Ore Deposits. $\frac{1}{400,000}$. 1908.—Linstow, O. von.
- HESSE. Basaltic rocks west of the Rhön Mts. $\frac{1}{50,000}$. 1907.—Seyried, E. von.
- PRUSSIAN SAXONY. Zeitz District. $\frac{1}{200,000}$. 1906.—Heinhold, M.
- , Halle a. S. $\frac{1}{25,000}$. 1907.—Selle, V.
- RHENISH PRUSSIA. Saarbrücken coalfield. $\frac{1}{135,000}$. 1907.—Okorn, F.
- , Thuringian Forest Region. $\frac{1}{25,000}$. 1907.—Tornow, M.
- , —. $\frac{1}{415,000}$. 1908.—Zimmermann, E.
- WESTPHALIA, &c. Egge-Gebirge. $\frac{1}{25,000}$. 1907.—Stille, H.
- , Ems Valley. $\frac{1}{57,000}$. 1907.—Tietze, O.
- , Hagen & Iserlohn. $\frac{1}{50,000}$. 1907.—Sichterman, P.
- , Iserlohn & Letmathe. $\frac{1}{50,000}$. 1907.—Denckmann, A.
- , Siegen Iron-Ore Deposits. 1 inch = about 13 km. 1908.—Resow, —.
- WÜRTTEMBERG (N.). $\frac{1}{1,000,000}$. 1908.—Fluhr, R.
- GREAT BRITAIN & IRELAND.
- BRITISH ISLES. Generalized Geological Map. 1 inch = about 130 miles. 1908.—Greenwell, A.
- ENGLAND AND WALES. Geological Survey. 1-inch Geological Map: Special Sheet. New series. Oxford. 1908.—Pocock, T. I.
295. Quantock Hills, Taunton & Bridgwater. 1908.—Ussher, W. A. E.
348. Plymouth & Liskeard. 1907.—Ussher, W. A. E.
353. Mevagissey. 1907.—Reid, C.
- , —. 6-inch Geological Map. Glamorganshire. 20. N.W., S.W.; 29. N.W., S.W.; 36. N.W. N.E., S.W., S.E.; 37. N.W., N.E., S.W. 1908. Solid & Drift.
- Monmouthshire. 18. N.W., S.E.; 22. N.E., S.E.; 23. S.W.; 27. N.E.; 28. N.W. 1908. Solid & Drift.
- , Carnarvonshire. Carnarvon-Llanberis District. 1 inch = 6 miles. 1908.—Badger, A. B.

EUROPE.

ENGLAND AND WALES.

—, Cornwall. Truro District. 1 inch = 4 miles. 1908.—Green, U.

—, Denbighshire. Glyn Ceiriog. 3 inches = 1 mile. 1908.—Groom, T.

—, Dorset. Worgret Hill. 6 inches = 1 mile. 1908.—Hudleston, W. H.

—, Gloucestershire. Tortworth Inlier. 1 inch = 1 mile; Daniel's Wood and Middlemill. 4 inches = 1 mile. 1908.—Reed, F. R. C., 6.

—, Herefordshire. 1 inch = 4 miles. 1908.—Richardson, L.

—, Isle of Wight. 6 inches = 1 mile.—Rowe, A. W.

—, Kent. 1 inch = 4 miles. 1908.—Lamplugh, G. W.

—, Sittingbourne. 1 inch = 1 mile. 1908.—Gore, W.

—, Norfolk. Trimmingham foreshore. 1 inch = 144 feet. 1908.—Brydone, R. M.

—, Northumberland & Durham. 1 inch = 2 miles. 1908.—Kirsopp, J., *fil.*

—, Oxfordshire, Buckinghamshire, & Berkshire. Chalk Rock Outcrop. 1 inch = $\frac{2}{3}$ mile. 1908.—Jukes-Browne, A. J.

—, Pembrokeshire. Porth - Clais. 25 inches = 1 mile; St. David's District. 3 inches = 1 mile. 1908.—Green, J. F. N.

—, Shropshire. 1 inch = 4 miles. 1908.—Cantrill, T. C.

—, Somerset. Quantock Hills & Taunton. 1 inch = 3 miles. 1908.—Ussher, W. A. E.

—, Yorkshire. Harrogate. 1 inch = 1 mile. 1908.—Strangways, C. F.

WALES (SOUTH), *various*. 1908.—Strahan, A.; *see also* Jordan, H. K.

IRELAND. Co. Dublin. Loughshinney. 3 inches = 1 mile. 1908.—Matley, C. A.

SCOTLAND. Geological Survey. 1-inch Geological Map. Sheet 60. Inverness (Rum, Canna Eigg, &c.). 1908.—Harker, A.

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—, Inverness-shire. Eigg, I. of. 2 inches = 1 mile. 1908.—Harker, A.

—, Colonsay & Oronsay Is. 1 inch = 2 miles. 1908.—Wright, W. B.

—, East Lothian (*various*). 1908.—Kendall, P. F.

—, Forfarshire. 1 inch = 10 miles; and Arbroath District, $3\frac{1}{2}$ inches = 4 miles. 1908.—Hickling, G.

—, Firth of Forth. Inchcolm. 1 inch = 125 yards. 1908.—Campbell, R., &c.

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ITALY. Abruzzo. $\frac{1}{500,000}$. 1908.—Sacco, F.

—, Gran Sasso Group. $\frac{1}{100,000}$. 1907.—Sacco, F.

—, Naples. Miseno. $\frac{1}{10,000}$. 1908.—Lorenzo, G. de.

—, Nisida I. $\frac{1}{12,000}$. 1908.—Lorenzo, G. de.

—, Piedmont. Rivoli District. $\frac{1}{100,000}$. 1908.—Prever, P. L.

—, Saluzzo Alabaster & Marble Deposits. $1\frac{1}{2}$ inch = about 3 miles. 1907.—Stella, A., 2.

—, Tuscany. Monte Corfino. $\frac{1}{100,000}$. 1908.—Fucini, A.

—, Umbria. Monte Malbe. $\frac{1}{100,000}$. 1908.—Principi, P.

—, Venetia. Feltrine Alps. $\frac{1}{100,000}$. 1907.—Piaz, G. dal.

—, Friuli district. Isonzo R. $\frac{1}{225,000}$. 1908.—Kossmat, F.

MONTENEGRO (South - Eastern and littoral). 2 maps. $\frac{1}{200,000}$. 1908.—Martelli, A.

NORWAY. Central & S. 1 inch = 50 kilom. 1905.—Bjørlykke, K. O.

—, Dønna I. 1 inch = 6 kilom. 1904.—Rekstad, J., 5.

—, Folgefonn Peninsula. 1 inch = 6 kilom. 1907.—Rekstad, J., 9.

—, Hamar. Ossen district. $\frac{1}{100,000}$. 1903.—Schietz, O. E.

—, Hardanger Fjeld. $\frac{1}{400,000}$. 1902.—Reusch, H.

—, Haukeli. 1 inch = 10 kilom. 1903.—Rekstad, J., 3.

—, Iron-Ore Districts (*various*). 1909.—Sjægren, H.

—, Jotun Mts. 1 inch = 5 kilom. 1904.—Rekstad, J., 6.

—, Sognefjord. 1 inch = 5 kilom. 1905.—Rekstad, J., 8.

—, Velfjorden. 1 inch = 5 kilom. 1902.—Rekstad, J., 2.

PORTUGAL. Arrabida Chain (*various*). 1908.—Choffat, P.

—, Silurian districts, *various*, all $\frac{1}{50,000}$. 1908.—Delgado, J. F. N.

RHENISH BAVARIA. Volcanic intrusions in. $\frac{1}{350,000}$ & $\frac{1}{75,000}$. 1908. Reis, O. M.

RUMANIA. Moldavia. 1 inch = about 25 miles. 1907.—Sevastos, S.

RUSSIAN EMPIRE.

FINLAND. Pitkäranta. $\frac{1}{40,000}$. — Truestedt, O.

RUSSIA. Grodno. Dombrova Coalfield. $\frac{1}{100,000}$. 1907.—Charnotzki, S. I.

—, Orenburg, &c. Zigaza & Komarovo. $\frac{1}{84,000}$ & $\frac{1}{165,000}$. 1906.—Konoushevski, L.

—, Prov. of the Don Cossacks. Provalié District. $\frac{1}{120,000}$. 1907.—Stepanov, P.

EUROPE.

RUSSIAN EMPIRE.

RUSSIA. Urals. Berezov Asbestos District. $\frac{1}{30,000}$. 1907. — Kryžanovskii, V. I.

—, —, —. Néviensk. $\frac{1}{210,000}$. 1906. —Krasnopolski, A.

SPAIN. Almeria, &c. $\frac{1}{2,500,000}$. 1908. —R. Pilz.

—, —. Catalonia, Mt. Tibidabo. $\frac{1}{500,000}$. 1908.—Maier, W.

—, —. Murcia. Cartagena. $\frac{1}{160,000}$; & Mazarrón. $\frac{1}{75,000}$. 1908.—R. Pilz.

SWEDEN. Gothland. Hornborga Lake peat. 1 inch = about 1 mile.

1908.—Sernander, R.

—, —. Elfdal Basin. $\frac{1}{1,500,000}$. 1908.—Wallen, A.

—, —. Iron-Ore Deposits (*various*). 1908.—Sjögren, H.

—, —. Norrland (Quaternary & solid). 1 inch = about 58 miles. 1906.—Høgbom, A. G.

SWITZERLAND. $\frac{1}{250,000}$. 1907.—Schmidt, C.

—, —. Berne. Lake Bienne or Biel District. $\frac{1}{1\frac{1}{2}}$ inches = 5 kilom.

1908.—Nussbaum, F.

—, —. Fribourg. Rubli-Gummfluh. $\frac{1}{250,000}$. 1907.—Jaccard, F.

—, —. Glaciation & Plants (*various*). 1908.—Briquet, J.

—, —. Lepontine Alps. Simplon Group. $\frac{1}{350,000}$. 1908.—Schmidt, C.

—, —. Soleure. Weissenstein Tunnel. 2 maps. $\frac{1}{25,000}$. 1908.—Buxtorf, A.

—, —. Ticino. Pizzo di Campo Tenca & Pizzo Forno. $\frac{1}{50,000}$. 1908.

—Koenigsberger, J.

—, —. Valais. Pierre-a-Voir. $\frac{1}{500,000}$. 1905.—Sandberg, C. G. S.

—, —. Zurich. Schaffhausen, &c. Glaciation Map. 1907.—Hug, E.

—, —, &c. Alps. $\frac{1}{2,500,000}$. 1908.—Frech, F.

—, —. Baden & Württemberg. 'Nagelflüh.' $\frac{1}{200,000}$. 1908.—Schaad, E.

TURKEY. Old Servia & Macedonia. $\frac{1}{750,000}$; & Olympia. $\frac{1}{500,000}$. 1908.—Cvijić, J.

Marble Arch Caves (Fermanagh). —Broderick, H., 2.

Marble, Dahomey.—Hubert, H., 2.

—, —. Romsdal.—Bugge, C.

—, —. Saluzzo.—Stella, A., 2.

—, —. Siena.—Fucini, A.; Lotti, B., 2.

—, —. Victoria (Austral.).—Dunn, E. J., 28.

—, —. working.—Anon., 37.

Marcasite, experiments on.—Stokes, H. N.

Marches (Italy).—Lotti, B., 5.

Marchienne coal-mine waff, origin of.—Kersten, J.

Margarites.—Gemmellaro, G. G.

Margulinula.—Issler, A.

Margitta I. (Budapest).—Kalecsinszky, A. von.

Mariemont (Liège).—Deltenre, H., 1 & 2.

Marinasian, Paris Basin.—Dollfus, G. F.

Marine vertebrates, conservation of.—Wieland, G. R., 3.

—, —. beds, Carboniferous of Scotland.—Smith, J.

—, —, —. Yorkshire Coal Measures.—Culpin, H.

Mario, Mte. (Rome).—Cerulli-Irelli, S.

Marls, Algeria.—Lamothe, — de.

—, —. Chenay.—Guillaume, E.

—, —. Rome.—Stefani, C. de, 2.

Marne (France).—Dollfus, F. G., 5 & 6; Guillaume, E., 1 & 2; Laurent, J., 1 & 2; Leriche, M., 3 & 6-8.

Maros R. (Hungary).—Kadić, O., 3; Pálffy, M.; Roth von Telegd, L., 2.

Mars, possibility of life on.—Evans, J. W.

Marsden (Northumberland).—See Brit. Assoc., 3.

Marsh-lands, New England.—Penhalow, D. P.

Marsupites-zone, Nord.—Janet, C.

Martinia.—Gröber, P.; Matley, C. A.

Martinique (W.I.).—Anderson, T., 2.

Maryborough (Vict.).—Dunn, E. J., 31; Howitt, A. M., 1 & 2.

Maryland (U.S.A.).—Prouty, W. F.; Swartz, C. K.; see also MARYLAND Geol. Surv., 1-3.

Massachusetts (U.S.A.).—Hobbs, W. H., 2; Lahee, F. H., 2.

Massiac (Cantal).—Marty, P., 2.

Massow (Pomerania).—Korn, J.

Mastigograptus.—Ruedemann, R.

Mastodon, first American.—Bibbins, A. B.

Masuren (E. Prussia).—Hess von Wichdorff, H., 7.

Matanuska Basin (Alaska).—Paige, S., 2.

Mathinna goldfield (Tasm.).—Twelve-trees, W. H., 2.

Mattagami Valley (Ont.).—Kerr, H. L.

Mattstock (Grisons).—Baumberger, E., 3.

Mauch Chunk shale, Pennsylvania.—Barrell, J.

Maurienne district (Savoy).—Girardin, P., 1 & 2.

Mauritius.—Gardiner, J. S.

Mawsonia.—Woodward, A. S., 2.

Maxwell's Reef (Vict.).—Dunn, E. J., 4.

MAYER-EYMAR, K., *Obit.*—See Heim, Alb., 5; & Sacco, F., 8.

Mayo (Ireland).—Gardiner, C. I.

MATR, G., *Obit.*—See Kerner, F. von, 6.

Mazarrón (Murcia).—Pilz, R.

Mechanics, geology &.—Girard, R. de, 3.

—, —, igneous intrusion &.—Daly, R. A.

Mecklenburg (Germany).—Geinitz, E., 2.

- Mediterranean, Cretaceous.—Felix, J.
 Medolo (Val Trompia).—Fucini, A., 4.
 Medusæ, Jurassic.—Ammon, L. von.
 Medves Mts. (Hungary).—Rozlozsuik, P., 3.
 Medvetó Lake (Hungary).—Schafarzik, F., 4.
 Medway Valley (Kent).—Handcock, E. W.; Strahan, A.
Meekoceras.—Arthaber, G. von.
Megaladapis.—Lorenz, L. von.
Megalanteris & *Megambonia*.—Clarke, J. M.
Megaliotis.—Matthew, W. D.
Megalosaurus.—Woodward, A. S., 3.
 Megantic, Lake (Quebec).—Dresser, J. A., 2.
 Meguma Series, Nova Scotia.—Woodman, J. E.
 Mehlis (Thuringia).—Scheibe, R.
Melanactes.—Wickham, H. F.
Melanagrion.—Cockerell, T. D. A., 2.
Melanatria.—Oppenheim, P., 2.
Melania.—Roman, —, 3.
Melanoides.—Dollfus, G. F., 2.
 Melbourne (Vict.).—Anon., 38.
 MELCZER, G., *Obit.*—See Lœrenthey, I., 2.
 Mellisello I. (Dalmatia).—Martelli, A., 2.
Melocrinus.—Mailieux, E., 9.
 Menado (Celebes).—Koperberg, M.
 Mendip Hills (Somerset).—Reynolds, S. H., 3.
 Mendoza (Argentina).—Loos, P. A.
Meretrix.—Kitchin, F. L.
Meristella.—Clarke, J. M.
 Mersey R.—Nares, Sir G. S.
 Merycoidodontiæ, Tertiary. — Douglass, E.
Mesatirhinus & *Metarhinus*.—Osborn, H. F., 6.
 Meseritsch (Moravia).—Dreger, J.
Mesocetus.—Kadić, O., 4.
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- Perga.—Cockerell, T. D. A., 11.
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- Peridotite, Arkansas.—Purdue, A. H., 2.
- , Maine (U.S.A.).—Bastin, E. S.
- Perimecturus*.—Peach, B. N.
- Perrisphinctes*.—Newton, R. B., 2; Oppenheimer, J.; Sokolov, D. N., 2; Toulou, F.
- Perm (Russia).—Nikitin, V.
- Permian gravels, Tiverton District.—Martin, E. C.
- , *See also* Footprints, &c.
- Permo-Carboniferous, Brazil.—White, D.
- , Dutch East Indies.—Verbeek, R. D. M.
- , glaciation, causes of.—Davis, W. M., 4; Philippi, E., 2.
- , India.—Koken, E.
- , Kansas.—Greene, F. C., 2; Williston, S. W., 2.
- , Madagascar.—Boule, M.
- , Nassau.—Leppla, A.
- , New South Wales.—David, T. W. E.; Foxall, H. G.; Woodward, A. S., 6.
- , Poland.—Rehbinder, B.
- , Rhenish Prussia.—Schmidt, A., 4.
- , Saxony.—Becker, W. G.
- , Silesia.—Berg, G.
- , Spitsbergen.—Lee, G. W., 2.
- , Tasmania.—David, T. W. E., 2.
- , Texas.—Case, E. C., 1, 2, & 5; Leuchs, K.
- , Thuringia.—Scheibe, R.
- , Vosges.—Dory, A.
- Permo-Triassic, Arabia.—Diener, C., 5.
- Perna*.—Oppenheim, P., 2; Pellat, E.
- Pernes (Portugal).—Roman, F., 3.
- PÉRON, A., *Obit.*—*See* Anon., 15; Douvillé, H., 4.
- Perovskite, Tyrol.—Bowman, H. L.
- Persány Mts. (Hungary).—Vadász, M. E., 2.
- Persia.—Huntington, E.; Vredenburg, E. W., 5; Wilson, A. T.
- Perthshire.—Bates, G. F.; Shand, S. J.
- Peru (S. Am.).—Conway, Sir W. M.; Dueñas, E. I.; Jochamowitz, A.; Lisson, C. I.; Masters, V. F.; Nordenskjöld, E.; Romaña, E. A. L. de; Smith, J. K.
- Pesche (Namur).—Millieux, E., 8.
- Petalograptus*.—Elles, G. L.
- Peter the Great Geological Museum.—*See* ST. PETERSBURG, Mus. geol., 1-3.
- Peterborough (Northants).—Leeds, H. T.
- Peterborough Co. (Ont.).—Adams, F. D.
- Petrogenesis.—Dørlter, C.
- Petrographical microscope.—Muegge, O., 2.
- , soil-analysis.—Sigmond, A. H.
- Petrography, microscopic.—Adey, E. H.
- , text-books.—Dørlter, C.; Rosenbusch, H.
- , *See also* Petrology.
- Petroleum, Alaska.—Martin, G. C.
- , Angola.—Costa Sena, J. C. da, 2.
- , Athabasca R. (Canada).—Harrison, A. H.
- , bearing clays, S. Russia.—Ivanov, A. P.
- , Burma.—Pascoe, E. H., 1 & 2.
- , California.—Arnold, R., 1-3; Eldridge, G. H.
- , Canada.—Ells, R. W., 5 & 6.
- , Caucasus.—Kalicki, K.; Stevens, —; Rakusin, M. A.; Yermolov, A.
- , Colorado.—Gale, H. S.
- , hot-springs &—Stremme, H.
- , Hungary.—Posewitz, T., 3.
- , Illinois.—Bain, H. F., 1 & 3.
- , India.—Holland, T. H., 1-3.
- , Lorraine.—Van Werveke, L., 3.
- , Mexico.—Ordóñez, E.
- , Ohio.—Griswold, W. T.
- , Oklahoma.—Gould, C. N.
- , Ontario.—Coste, E.; *see also* ONTARIO, Bur. Mines, 5.
- , Orange R. Colony.—Kellner, G. J.
- , origin of.—Pervinquier, L.; Stremme, H.
- , Peru.—Masters, V. F.
- , Portugal.—Ackermann, E.
- , Quebec.—Clarke, J. M.
- , Rumania.—Aron, A.; Edeleanu, L., 1 & 2; Hurmuzescu, —; Mrazec, L., 2; Petroni, C. T.; Scharzik, F., 3; Teisseyre, W.
- , Scotland.—Stewart, D. R.
- , Trinidad.—Craig, E. H. C., 3.
- , West Virginia.—Brady, F. W.
- , Wyoming.—Hayes, C. W.
- , *See also* CHILE, Oil, NEW SOUTH WALES, &c.
- Petrology, Central Italy.—Chelussi, I.
- , SORBY & microscopical.—Judd, J. W.
- Petropavlovsk (Kamčatka).—Karpinski, A.
- Pfätschthal (Tyrol).—Bowman, H. L.
- Phaca.—Cockerell, T. D. A., 3.

- Phacoides*.—Cossmann, M.
Phacops.—Clarke, J. M.
Phaneroptyxis.—Pellat, E.
 Pharmakolite, Styria.—Cornu, F., 10.
Phasionella.—Cossmann, M.
Phegopteris.—Squinabol, S., 2.
Phenacoleites.—Cockerell, T. D. A., 8.
 Phenakite, Saxony.—Kolbeck, F., 6.
 —, Silesia.—Kolbeck, F., 7.
 Philippine Is. (Pacific).—Bacon, R. F.; Campbell, M. R.; Smith, W. D., 1-3; Suess, E.
 PHILLIPS, J.—See Anon., 23.
 Philosophy, natural.—Biddlecombe, A.
 Phlegrean Fields (Naples).—Lorenzo, G. de, 1 & 2; Zambonini, F.
Pholadella.—Drevermann, F.
Pholidosteus.—Jäkel, O., 4.
 Phonolite, Aussig i. B.—Rimann, E.
 —, Bohemia.—Cornu, F., 4.
 Phoridae, Tertiary.—Brues, C. T.
Phormocyrtis.—Hinde, G. J.
 Phosphate of alumina, Howqua River.—Howitt, A. M., 5.
 Phosphates, Algeria & Tunisia.—Blake, G. S.
 —, Belgium.—Tietze, O.
 —, Wellengebirge Trias. — Bräuhäuser, M.
 Phosphatic chalk, Hainault.—Delhayé, F.
 — minerals, Elder Rock.—Mawson, D., 4.
 Phosphoric acid, Bunter Sandstone.—Bräuhäuser, M.
 Phosphorus, Pittsburg coal-seam (Pa.).—Campbell, J. R.
 Photographs, underground.—See CAMBORNE Mining School, 1907-1908.
 Phyllocaridæ, Ordovician.—Chapman, F., 10.
Phylloceras.—Kitchin, F. L.; Toulà, F.; Wiśniowski, T.
 Phylloceratidæ, Jurassic.—Vadász, M. E.
Phyllothea.—Seward, A. C., 2.
 Phytosauria, Permian.—Huene, F. von; see also Reptilia.
 Picardy (France).—Bardou, P.; Breton, L., 1-3, 6-10; Gosselet, J., 1-11; Rigaux, E., 1 & 2.
 Pickeringite, Frankenwald.—Hess von Wichdorff, H., 4.
 Picromerite, water in.—Kreman, R.
 Piedmont (Italy).—Anon., 25; Franchi, S.; Prever, P. L., 2; Sacco, F., 1 & 6; Stella, A., 1 & 2; Toldo, G.
 Pierre-à-Voir (Valais).—Sandberg, C. G. S.
 Pilbara Goldfield (W. Austral.).—Maitland, A. G.
 Pilica R. (Poland).—Lewinski, J., 3.
 Pilis Mts. (Hungary).—Timkó, E.
 Pillow-lava (Cornwall).—Reid, C., 3.
 Pilsen (Bohemia).—Želízko, J. V.
 Pinar del Rio (Cuba).—Catlett, C.
Pinna.—Favre, F.; Steinmann, G., 6.
 Pinolite-magnesite.—Redlich, K., 2.
Pinus.—Combes, P., *fil.*, 2; Wieland, G. R.
 Pipes, diamantiferous kimberlite.—Bonney, T. G., 3; Dessauer, A. von; Harger, H. S., 2; Krause, H. L.; Sandberg, C. G. S., 5; Taylor, W.
 Pisa (Tuscany).—Ugolini, R., 2.
 Pisano, Mte. (Tuscany).—Ugolini, R., 3.
Pisidium.—Toulà, F., 5.
 Pisolitic iron-ores, N. Wales.—Fearn-sides, W. G., 2.
 — limestone, Paris.—Lambert, J., 4.
Pison.—Rohwer, S. A.
 Pitkäranta (Finland).—Truustedt, O.
 Pitch Lake (Trinidad).—Craig, E. H. C., 3.
Pithecanthropus.—Branca, W., 6; Elbert, J.
 Pittsburg coal-seam (Pa.).—Campbell, J. R.
Placenticeræ.—Vredenburg, E. W.
 Placer-gold, Hungary.—Gernet, A. von.
 — gravels, Alaska.—Collier, A. J.
 —, Colorado.—Lakes, A.
 —, New Zealand.—Anon., 33.
Placochelys.—Abel, O.
 Placodermi, Devonian.—Jäkel, O., 4.
Placosaurus.—Ameghino, F., 5.
 Planchette.—Lacroix, A., 4.
 Planimeter, quantitative estimation of minerals in rocks by.—Vinassa de Regny, P. E., 3.
Planorbis.—Cossmann, M.
 Plants, Carboniferous.—Arber, E. A., 1 & 4; Bertrand, C. E.; Bertrand, P., 2-5; Carpenter, A.; Deltenre, H., 2; Grand'Eury, F. C.; Halle, T. G.; Horwood, A. R., 5; Pelourde, F.; Renier, A., 1 & 4; Sargent, E.; Watson, D. M. S., 3 & 4; Yokoyama, M.; Zaleski, M. D., 1 & 2.
 —, casts of fossil.—Bather, F. A., 2.
 —, Cretaceous.—Berry, E. W.; Nathorst, A. G., 4; Vredenburg, E. W., 4; Wieland, G. R., 2.
 —, Devonian.—Chapman, F.; Malaise, C., 3; Matthew, G. F., 2.
 —, fossil.—Scheuchzer, J. J.
 —, Jurassic.—Chapman, F., 8; Halle, T. G., 1 & 2; Nathorst, A. G.; Salfeld, H.; Wieland, G. R., 2; Yabe, H.
 —, Permian.—Seward, A. C., 2; Yokoyama, M.
 —, Permo-Carboniferous. — Seward, A. C., 3.
 —, post-Glacial migrations of Swiss.—Briquet, J.
 —, Quaternary.—Blaas, J., 2; Gutzwiler, A.; Kerner, F. von, 4; Whittey, D. G., 2; Wollemann, A., 2.
 —, Rhætic.—Halle, T. G.; Nathorst, A. G., 3 & 4; Seward, A. C.
 —, Silurian.—Chapman, F.; Matthew, G. F., 2.

- Plants, Tertiary.—Andrews, K.: Arber, E. A. N., 3; Cockerell, T. D. A., 3 & 9; Combes, P., *fl.*, 1-2; Engelhardt, H., 1 & 2; Fritel, P. H., 1 & 2; Kowarzik, R.; Lauby, A.; Lorie, J., 2; Marty, P.; Palibin, I. V.; Pax, F.; Penhallow, D. P., 3; Reid, C., 4-7; Renner, O.; Roman, F., 3; Schuster, J., 2; Squinabol, S., 2; Wieland, G. R.
- , Triassic.—Arber, E. A. N., 2; Kerner, F. von, 3; Lomas, J., 5; Nathorst, A. G.
- , *See also* Wood, fossil.
- Plastic clay, Brabant.—Schmitz, G., 2.
- Plastomenus*.—Hay, O. P.
- Plateosaurus*.—Huene, F. von, 7.
- Platforms, Bodmin Moor.—Barrow, G.
- Platinum, Dauphiné.—Camous, V., 2.
- , South Africa.—Blake, G. S., 2.
- Platyceras*.—Clarke, J. M.; Drevermann, F.; Steinmann, G., 3.
- Platychnia*.—Oppliger, F.
- Platycrinus*.—Slocom, A. W.
- Platypedia*.—Cockerell, T. D. A.
- Platypeltis*.—Hay, O. P.
- Plauen (Saxony).—Becker, W. G.; Henglein, M., 2.
- Plectambonites*.—Schmidt, F.
- Pleistocene, Central Europe.—Sevastos, R., 2.
- , Somme Valley.—Briquet, A., 4.
- , *See also* Quaternary.
- Plesiolampas*.—Lambert, J.
- Pleuracanthus*.—Jäkel, O., 3; Woodward, A. S., 6.
- Pleurodictyum*.—Clarke, J. M.; Steinmann, G., 3.
- Pleuromutilus*.—Gemmellaro, G. G.
- Pleurotomaria*.—Parks, W. A.
- Pliocene, Antwerp.—Leriche, M., 3.
- , Algeria.—Lamothe, — de.
- , Alpes Maritimes.—Caziot, E., 1-3.
- , Hungary.—Méhes, G.
- , Limburg (Belgian & Dutch).—Lorie, J., 1 & 2; Newton, E. T.; Reid, C., 5-7.
- , Lombardy.—Martinelli, A.
- , Mayence.—Mordziol, C., 2.
- , Norfolk & Suffolk.—Reid, C., 4.
- Ploesti (Rumania).—Ionescu, I.
- Plumbago.—Evans, J. W., 3; *see also* Graphite.
- Plymouth (Devon).—Ussher, W. A. E.
- Po Valley (Italy).—Prever, P. L.
- Pobershau (Saxony).—Henglein, M.
- Pockets, Witwatersrand gold.—Voit, F. W., 3.
- Podogonium*.—Squinabol, S., 2.
- Podolia (Russia).—Lorinsky, W. von; *see also* Poland.
- Podolithus*.—Sardeson, F. W., 2.
- Poggio Orlando (Tuscany).—Manasse, E.
- Poitou (France).—Welsch, J.
- Pojána-Ruszká Mts. (Hungary).—Schafarzik, F.
- Poklos (Transylvania).—Roth von Telegd, L., 2.
- Pola (Styria).—Bach, F.
- Poland (Russian).—Koroniewicz, P.; Lewinski, J., 3; Michalski, A. O.; Nowak, J.; Rehlinger, B.
- Polarimeters, quartz-wedge &.—Wright, F. E., 2.
- Polarized light, crystals &.—Sommerfeldt, E., 6.
- Poli's generic names.—*See* Jukes-Browne, A. J., 2.
- Polje (Dalmatia).—Kerner, F. von, 2.
- Pollicipes*.—Richardson, L., 5.
- Polyacrodus*.—Jäkel, O., 3.
- Polycyclas*.—Gemmellaro, G. G.
- Polygonocarpus*.—Zaleski, M. D.
- Polymorphous crystals.—Weber, J.
- Polymygnite.—Chernik, G. P.
- Polyzoa.—*See* Bryozoa.
- Polzin (Pomerania).—Finckh, L., 2.
- Pomaretto Quarry, Chisone Valley.—Colomba, L., 2.
- Pomerania (Prussia).—Deecke, W., 2; Finckh, L., 2; Hess von Wichdorff, H., 1 & 6; Korn, J.; Lehmann, F. W. P., 1 & 2; Picard, E.; Wunstorf, W.
- Pomeroy coal, Ohio.—Bownocker, J. A.
- Ponte Molle (Rome).—Stefani, C. de, 2.
- Pontederia*.—Fritel, P. H.
- Popocatepetl (Mex.).—Hovey, E. O., 2.
- Porcupine R. (Alaska).—Barnett, V. H., 2.
- Porodiscus*.—Hinde, G. J.
- Porphyrite, Quenast.—Hankar-Urban, A.
- Porphyroid, Belgian Luxemburg.—Simoëns, G., 9.
- , Brabant.—Malaise, C.; Mathieu, E.; Simoëns, G., 3 & 7.
- Porphyry, Baden.—Bross, H.
- , Brumund Valley.—Hansen, A. M.
- , Kiirunavaara.—Geijer, P.
- , Mysore.—Sampat Iyengar, P.
- , Nandewar Mts.—Jensen, H. I., 3.
- , Nevada.—Ball, S. H.
- , Rhenish Bavaria.—Reis, O. M.; Schuster, M.
- , Sarn Valley.—Loehr, A. von.
- , Silesia.—Dathe, E.
- , Styria.—Trobei, B.
- , Tyrol.—Hillebrand, S.
- , Venetia.—Maddalena, L., 3; *see also* Porphyroid, &c.
- Porta Cassia, near Orvieto, safety of foundations of.—Lotti, B., 3.
- Portage (N.Y.).—Clarke, J. M., 4.
- Portage Formation, Maryland.—Swartz, C. K.
- Portal, Fort (Uganda).—Colomba, L.
- , Grotte du (Ariège).—Jeannel, R.
- Port Henry Mine Group (N.Y.).—Newland, D. H., 4.
- Port Isaac (Cornwall).—Reid, C.
- Portland cements.—Humphrey, R. L.
- Portsmouth Harbour (N.H.).—Penhallow, D. P.

- Portugal.—Ackermann, E.; Choffat, P., 1 & 2; Delgado, J. F. N.; Maclaren, J. M.; Roman, F., 3.
- Posen (Germany).—Hess von Wichdorff, H., 5.
- Possession I. (Indian Ocean).—Drygalski, E. von.
- Post-Glacial beds, Gt. Crosby.—Reade, T. M., 2.
- plant-migrations, Switzerland. — Briquet, J.
- Potash-deposits, Chile.—Argandoña, N.
- Potash-salts, Germany.—Van 't Hoff, J. H.
- Potchefstroom (Transvaal).—Mellor, E. T.; Young, R. B., 2.
- Poterioceras*.—Wedekind, R.
- Potgieter's Rust (Transvaal).—Johnson, J. P., 3.
- Pothole, lateral.—Fleury, E., 2.
- POTIER, A. *Obit.*—See Liénard, A.
- Potter's Bar (Middlesex).—Whitaker, W., 3.
- Pottery clays, France.—Laville, —.
- Pourey (Marne).—Guillaume, E., 2; Leriche, M., 7.
- Powellite, Texas.—Schaller, W. T.
- Præanaspidæ*.—Woodward, H., 2.
- Præglyptoceras*.—Wedekind, R.
- Præovibos*.—Staudinger, W.
- Prasopora*.—Hennig, A.
- Pratteln (Basel).—Struebin, K.
- Pre-Cambrian, Bardon Hill. — Keay, W.
- , Canada.—Adams, F. D., 1 & 2.
- , volcanic bombs, Nova Scotia. — Poole, H. S., 2.
- , Wisconsin.—Hobbs, W. H., 5.
- , Wyoming.—Blackwelder, E.
- Precious stones.—Dutens, L.; Goodchild, W.; Kolderup, C. F., 4.
- Pretoria (Transvaal).—Kynaston, H.
- Series, Transvaal.—Hall, A. L.
- Prieska (Cape Colony).—Du Toit, A. L., 2.
- Priemhausen (Pomerania).—Wunstorff, W.
- Primary Era glaciers.—Lemoine, P., 5.
- Primates, subfossil.—Standing, H. F.
- Prince Charles Foreland (Spitsbergen).—Lee, G. W., 2.
- Prince of Wales, Cape (Alaska).—Fay, A. H.
- PRINZINGER, H., *Obit.*—See Tietze, E., 5.
- Priscodelphimus*.—True, F. W.
- Probolium*.—Clarke, J. M.
- Productus*.—Græber, P.; Lee, G. W.; Matley, C. A.; Sibly, T. F.
- Proetus*.—Parks, W. A.
- Prolobites*.—Wedekind, R.
- Pronomotherium*.—Douglass, E.
- Pronorites*.—Arthaber, G. von.
- Propappus*.—Broom, R.
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- Protelops*.—Woodward, A. S., 7.
- Protobrissus*.—Lambert, J., 2.
- Protocardia*.—Woods, H., 2.
- Protosphyæna*.—Woodward, A. S., 6.
- Proustite.—Van Horn, F. R.
- Provalié District (S. Russia).—Stepanov, P.
- Provence (France).—Sayn, G.
- Prozeuglodon*.—Andrews, C. W., 2.
- Prussia.—See also Brandenburg, &c.
- , borings.—Keilhack, K., 2.
- (E.).—Hess von Wichdorff, H., 2 & 7; Kauhowen, F., 1-3; Klautzsch, A., 2.
- (W.).—Behr, J.; Jentzsch, A., 1-3; Maas, G.
- Przeciszow (Galicia).—Michael, R., 4.
- Psammecinus*.—Lambert, J., 3.
- Psephidia*.—Arnold, R., 2.
- Pseudocyon*.—Bach, F., 3.
- Pseudodiadema*.—Savin, L.; Tornquist, A., 3; Toulia, F.
- Pseudo-fucoids, Fort Munro.—Vredenburg, E. W., 4.
- Pseudomelania*.—Cossmann, M.; Pel-lat, E.
- Pseudomorphs. — Lapparent, J. de; Samoilov, J., 2; Stevanović, S., 2; Zimmermann, E.
- Pseudomurchisonia*.—Wittenburg, P. von, 2.
- Pseudonerinea*.—Pellat, E.
- Pseudostrobus*.—Combes, P., *fil.*
- Psiloceras*.—Epstein, L.
- Psilomelane.—Fermor, L. L., 3.
- Pteraspis*.—Fraipont, C., 4.
- Pteridosperms, Carboniferous.—Grand'Eury, F. C.
- Pteris*.—Squinabol, S., 2.
- Pterocardia*.—Cossmann, M.
- Pterodactylus*.—Branca, W., 5.
- Pterophyllum*.—Arber, E. A. N., 2; Seward, A. C.
- Pteropsis*.—Smith, W. D.
- Pterosauria, origin of.—Branca, W., 5.
- Ptiograptus* & *Ptilograptus*.—Ruedemann, R.
- Puente Hills (Cal.).—Eldridge, G. H.
- Pulkova (Russia).—Galitzine, B.
- Puy-de-Dôme (Auvergne).—Glangeaud, P., 1, 2, 4, & 5; Lacroix, A., 9 & 10.
- Puy, le (Haute Loire).—Laurent, A.
- Puys, the (Auvergne).—Glangeaud, P., 1, 2, 4, & 5.
- Pycnodus*.—Musy, M., 4.
- Pygocephalus*.—Peach, B. N.
- Pygorhynchus*.—Savin, L.
- Pyrargyrite, Spain.—Mauritz, B. von, 2.
- Pyrenees (French).—Barrow, G., 2; Bertrand, L.; Bresson, A.; Dixon, E. E. L.; Fournier, E.; Mengel, O.; Stuart-Menteath, P. W.
- Pyrites, crystallography of.—Liffa, A., 3.
- , Déva.—Maros, L. von.
- , experiments on. — Spezia, G.; Stokes, H. N.
- , Hungary.—Liffa, A., 3; Papp, K. von, 4.
- , Montana.—Simpson, J. F.

- Pyrites, oxidation of.—Grout, F. F., 2;
Read, T. T.; Winchell, A. N.
—, weathering of limestones &. —
Cornet, J.
Pyropissite.—Heinhold, M.
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Pyroxenite.—Sabatini, V.
Pyroxene-andesite, New Pomerania I.—
Lehmann, V. E.
Pyrrhotites, nickeliforous. — Campbell,
W.

Quantock Hills (Somerset).—Ussher,
W. A. E., 2.
Quarries, creep-noises in.—Delhay, F.,
2.
—, Great Britain. — See GREAT
BRITAIN, 1-4.
—, New York.—Newland, D. H.,
1 & 2.
Quartz.—Colomba, L., 2; Hein, H.;
Leitmeier, H., 2; Thomaz, C.
—-crystals. — Flink, G., 2; Gold-
schmidt, V.
—, with fossils, Devonian lime-
stone, Westphalia.—Erdmannsdorffer,
O. H., 2.
—-felsite, Caernarvon.—Badger, A. B.
—-porphyry, Baden.—Bross, H.
—, Halle a. S.—Selle, V.
—-wedge, polarimeters &.—Wright,
F. E., 2.
Quartzite-block in Schelde R., near
Ghent.—Schep, A.
—, Namur.—Kaisin, F.
—, Taunus Mts.—Fritz, J.
—, Veryan.—Fox, H.
Quaternary, Bourbonnais.—Chaput, E.
—, Alpes Maritimes.—Caziot, E.,
1 & 3.
—, Calais.—Briquet, A., 3.
—, Cambrai.—Godon, J.
—, Cayuga Valley.—Maury, C. J.
—, climate.—Caziot, E.; Hægg, R.
—, Cornwall.—Woodward, B. B.
—, Dalmatia.—Kerner, F. von, 4;
Schubert, R. J.
—, Dutch East Indies.—Verbeek, R.
D. M.
—, European (S.).—Geinitz, E.
—, fauna & man.—Mortillet, A. de.
—, Friesland.—Bielefeld, R.
—, Genesee Valley.—Clarke, J. M., 4.
—, Gloucester.—Richardson, L., 12.
—, Hanover.—Könen, A. von; Men-
zel, H.; Schucht, F.; Wollemann, A.,
1-3.
—, Hesse.—Raußenberger, J.; Steuer,
A.
—, Hundsheim.—Toula, F., 2.
—, Java.—Elbert, J.
—, Lake Constance district. —
Schmidle, W.
—, Norway.—Kaldhol, H., 2; Kol-
derup, C. F.
—, Po Valley.—Prever, P. L.
—, Pomerania, &c.—Deecke, W., 2;
Meyer, E.

Quaternary, Rhenish Prussia.—Fliegel,
G., 2; Stuert, B.
—, Rügen I.—Philippi, E.
—, Schleswig-Holstein.—Gagel, C.;
Wieggers, F., 2.
—, Scotland.—Geikie, J.
—, Silesia.—Guerich, G.
—, Sweden.—Widman, R.
—, Thames Valley.—Hinton, M. A.
C., 3.
—, Toronto.—Maury, C. J.
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- Raised beaches, Norway.—Brøgger, W. C., 2.
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 —, jaws of.—Jækel, O.
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 —, structure of fossil & recent bones.—Seitz, A. L. L.
 —, Tertiary.—Andrews, C. W., 2; Camous, V.; Hay, O. P.; Lambe, L. M.; Merciai, G.; Priem, F.
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 Ringwould (Kent).—Rowe, A. W.
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 Rőcze, Nagy (Hungary).—Böckh, H. von, 2.
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 Tarnowitz (Silesia).—Michael, R.
 Tarnthal Mass (Tyrol).—Young, A. P.
 Tasmania.—Chapman, F., 10; Cosyns,
 G., 3; David, T. W. E., 2; Twelve-
 trees, W. H., 1-3; Ward, L. K.; see
 also TASMANIA, Dep. Mines, 1-4.
 Tatkan (Burma).—Cotter, G. de P.
 Tatong (Victoria).—Summers, H. S.
 Tatra Mts. (Hungary).—Uhlig, V., 2.
 Taubach (Croatia).—Gorjanovič-Kram-
 berger, D., 2.
 Tauber R. (Baden).—Henkel, L.
 Tauern, Hohen (Styrian Alps).—Göt-
 zinger, G.
 Tauern Tunnel (Styria).—Becke, F.;
 Berwerth, F.
 Taumeb (German S.W. Africa).—Stut-
 zer, O., 3; Voit, F. W., 8.
 Taungtha Hills (Burma).—Cotter, G. de
 P., 3.
 Taunton (Somerset).—Ussher, W. A. E.,
 2.
 Taunus Mts. (Germany).—Fritz, J.
Taxospermum.—Bertrand, C. E.
 Taylor Mt. (N. Mex.).—Johnson, D.
 W.; Shiner, H. W.
 Tchirree (Victoria).—Hunter, S. B.
 Te Anau, Lake (N.Z.).—Marshall, P.
Tealliocaris.—Peach, B. N.
 Technical schools, education &.—Steven-
 son, J. J., 2.
 Tectonic theories.—Borne, G. von dem.
 Teeth, Dinosaurian.—Huene, F. von, 7.
 —, fish.—Joleaud, J., 2.
 —, mammalian fossil, hollow.—Her-
 mann, R.
 Tegelen (Dutch Limburg).—Newton,
 E. T.; Reid, C., 5-7.
 Tegern, Lake (Bavaria).—Schuster, J.
Teichosperma.—Renner, O.
 Telenjen Valley (Rumania).—Merutiu,
 V.
 Telkwa R. (B.C.).—Leach, W. W.
 Tellurium, native, Balia.—Cesáro, G.
 Tembeling Series, Singapore.—Scrivenor,
 J. B.
 Temiskaming (Ont.).—Howe, H. M.
 Templeton, East (Mass.).—Lahee, F. H.,
 2.
 Tenca, P. di Campo (Ticino).—Königs-
 berger, J.
 Tennessee (U.S.A.).—Pate, W. F.
 Tenpo (Japan).—Omori, F., 15.
 Tenthredinoidea, Tertiary.—Rohwer, S.
 A., 2.
 Teplitz (Bohemia).—Hibsch, J. E., 2.
Teratosaurus.—Huene, F. von, 7.
Terebratula.—Thomson, J. A., 2;
 Toul, F.
Terebratula, Crag.—Buckman, S. S., 3.
Terebratulina.—Thomson, J. A., 2.
 Terek (Russia).—Ogilvie, A. N., 1 & 2.
 Termite.—Skinder, V. A.
 Termonde (Flanders).—Halet, F., 2.
 Terraces, Agram district.—Gorjanovic-
 Kramberger, D.
 —, Canterbury (N.Z.).—Speight, R.
 —, Hesse.—Stauer, A., 2.
 —, Inn Valley.—Ampferer, O., 5.
 —, Ohio.—Hubbard, G. D.
 —, Swiss alluvial.—Æberhardt, B.
 Terrestrial conditions, early.—Chamber-
 lin, T. C., 2.
 — deposits, climate &—Barrell, J., 2.
 Tertiary, Algeria.—Darest de la Cha-
 vanne, J., 2; Joleaud, E.
 —, Aquitaine.—Douvillé, H., 3.

- Tertiary, Ariège & Hte. Garonne.—Carez, L.
 —, Bavaria.—Beutler, K.
 —, Brabant.—Forir, H.; Mourlon, M.; Schmitz, G., 2; Vincent, E.
 —, Burma.—Dalton, L. V.
 —, climates of the.—Kinkel, F.
 —, Dutch East Indies.—Verbeek, R. D. M.
 —, East Prussia.—Kaunhowen, F., 3.
 —, English Channel.—Cole, G. A. J.
 —, Fayûm.—Oppenheim, P.
 —, Flåming District.—Meyer, E.
 —, Galicia & Silesia.—Michael, R., 4.
 —, Georgia.—Veatch, O., 2.
 —, Guyenne.—Repelin, J.
 —, Hanover.—Menzel, H.
 —, Hesse.—Steuer, A., 2.
 —, Holstein.—Wiegiers, F., 2.
 —, Hungary.—Koch, A., 2; Vadász, M. E., 3.
 —, Indre.—Cossmann, M.
 —, Java.—Elbert, J.
 —, Kerry.—Cole, G. A. J., 3.
 —, Lr. Austria.—Freudenberg, W.
 —, Lille.—Gosselet, J., 7.
 —, Limburg (Belgian & Dutch).—Lorié, J., 1 & 2.
 —, Madagascar.—Boule, M., 3.
 —, Meuse R.—Briquet, A., 6.
 —, Mexico.—Dumble, E. T.
 —, Morocco.—Brives, A.
 —, New Hebrides.—Chapman, F., 3.
 —, New Zealand.—Thomson, J. A., 2.
 —, Paris Basin.—Cayeux, L.; Combes, P., *fil.*, 1-3; Jodot, P.; Lambert, J., 4; Leriche, M., 5-7; *see also* Marne, &c.
 —, Patagonia.—Angelis d'Ossat, G. de; Gaudry, A.; Steinmann, G., 6.
 —, Philippine Is.—Smith, W. D.
 —, Pomerania.—Picard, E.
 —, Rhenish Prussia.—Holzapfel, E.
 —, Rome.—Cerulli-Irelli, S.; Stefani, C. de, 2.
 —, Rumania.—Simionescu, I.; Teisseyre, W.
 —, Sardinia.—Lambert, J., 3.
 —, Savoy.—Demoly, F.
 —, Tagus Valley.—Roman, F., 2.
 —, Velay District.—Laurent, A.
 —, Venetia.—Douvillé, H., 3; Squinabol, A., 2.
 —, Victoria.—Chapman, F., 4; Wilkinson, H. L.
 —, Vienna Basin.—Schaffer, F. X., 2 & 3.
 —, Voronetz Gov.—Dubjanski, A. A.
 —, Württemberg.—Schad, J.; Schuetze, E., 2.
 —, Zealand (Denmark).—Milthers, V., 3.
 —. *See also* Eocene, Landenian, Sparnacian, &c.
 Tetchen (Silesia).—Cornu, F., 2.
 Tetradymites, Russian.—Nenadkevič, K. A.
Tetraprothomo.—Abel, O., 2; Ameghino, F., 3.
 Teutoburg Forest (Westphalia).—Hasebrink, A.
 Tewkesbury (Gloucester).—Richardson, L., 3.
 Texas (U.S.A.).—Case, E. C.; Koch, W. E.; Leuchs, K.; Osborn, H. F., 4; Penhallow, D. P., 2; Williston, S. W., 2; Reagan, A. B.; Richardson, G. B.; Schaller, W. T.; Udden, J. A.
 Teyde, Pico de (Canary Is.).—Montagnier, H. F.
 Tezio, Mte. (Umbria).—Principi, P.
 THACKERAY, F. St. J., reminiscences 1832-1907.—*See* Thackeray, F. St. J.
 Thaingen (Schaffhausen).—Heierli, J.
 Thalattosauria, Triassic.—Merriam, J. C.
 Thames Basin.—Beadle, C.
 Thames Valley.—Chatwin, C. P.; Hinton, M. A. C., 3.
 Tharand (Saxony).—Becker, W. G., &c.
Tharrhias.—Jordan, D. S.
 Thanetian, Reims.—Guillaume, E.
Thecodontosaurus.—Huene, F. von, 7.
 Theerwisch (E. Prussia).—Kaunhowen, F., 2.
Theocampe & *Theosyringium*.—Hinde, G. J.
 Thermal waters, Bohemia.—Hibsch, J. E.
 —, France.—Moureu, C., 1 & 2.
 —, Var.—Martel, E. A.
 —, Pyrenees.—Bresson, A.; Mengel, O.
 Therocephalia, Permian-Triassic.—Broom, R., 2 & 3.
 Thessaly.—Cvijić, J., 2.
Thetironia.—Kitchin, F. L.
Thiemella.—Williams, H. S.
Thinnfeldia.—Seward, A. C.
 THOMAS, H. H.—*See* Geikie, Sir A.
 Thomson River (Gippsland).—Chapman, F., 7.
 THOMSON, W. (KELVIN, Baron), *Obit.*—*See* Anon., 20.
 Thorianite, Ceylon.—Cosyns, G., 2.
 Thorigny (Seine-et-Marne).—Jodot, P.
 Thun, Lake (Switzerland).—Baltzer, A.
 Thuringia (Germany).—Hess von Wichborff, H., 4; Kuehn, B.; Naumann, E., 1-3; Scheibe, R.; Staudinger, W.; Tornow, M.; Walther, K.; Zimmermann, E., 1 & 4.
Thurmannia.—Sayn, G.
Thysanocrinus.—Slocum, A. W.
 Tian-Shan Mts. (Asia).—Græber, P.
 Tibet (Asia).—Burrard, S. G.; Hayden, H. H.
 Tibidabo, Mte. (Catalonia).—Maier, W.
Ticholeptus.—Douglass, E.
 Ticino (Switzerland).—Koenigsberger, J.
 Tidikelt (Sahara).—Gautier, E. F., 2.
 Tierra del Fuego (S. Am.).—Andersson, J. G.; Scottsberg, C.; Steinmann, G., 2 & 6.
 Tilmanstone (Kent).—Anon., 31.

- Timan Peninsula (Russia).—Schellwien, E.
- Timanfaya (Canary Is.).—Montagnier, H. F.
- Timor (D.E.I.).—Boehm, G., 2; Hinde, G. J.; Verbeek, R. D. M.
- Tin, Africa (S.).—Voit, F. W., 6.
- , Alaska.—Fay, A. H.
- , Bolivia.—Romaña, E. A. L. de.
- , Cornwall.—Barrow, G.
- , Dutch East Indies.—*See* DUTCH EAST INDIES.
- , Erzgebirge (Saxony).—Kolbeck, F., 6, &c.
- , Malay States.—Nightingale, E.; *see also* MALAY STATES, 2.
- , Nigeria.—*See* NIGERIA, 4.
- , Peru.—Romaña, E. A. L. de.
- , Queensland.—Edlinger, W.; *see also* QUEENSLAND, Dep. Mines.
- , Tasmania.—*See* TASMANIA, Dep. Mines, 1-4.
- , Transvaal.—Johnson, J. P., 3; Merensky, H., 2.
- , Victoria (Austral.).—Dunn, E. J., 13-15.
- , Western Australia.—*See* WESTERN AUSTRALIA, Dep. Mines, 1 & 2.
- Tin Creek (Vict.).—Dunn, E. J., 15.
- Tinée Valley (Alpes Maritimes).—Caziot, E., 3.
- Tinstone, secondary twinning.—Johnsen, A., 2.
- Tipperary, Co. (Ireland).—Hill, C. A.
- Tisza (Transylvania).—Kadić, O., 3.
- Titanic iron-ore, Norway.—Vogt, J. H. L.
- oxide, crystalline structure &—Sollas, W. J., 2.
- Titanotheres, Tertiary.—Osborn, H. F., 6.
- Tiverton (Devon).—Martin, E. C.
- Tivoli (Rome).—Clerici, E.
- Toarcian, Aveyron.—Maillieux, E., 5.
- , Greece.—Renz, C., 2.
- Tobago I. (W.I.).—Craig, E. H. C., 2.
- Toce Valley (N. Italy).—Tacconi, E.
- Tokyo (Japan).—Omori, F., 2-5 & 7.
- Tolentino, Mte. (Italy).—Lotti, B., 5.
- TOLL, Baron E. von.—Nathorst, A.; Pavlov, M.
- Toluca (Mex.).—Hovey, E. O., 2.
- Tomognathus*.—Woodward, A. S., 7.
- Tomsk Gov. (Siberia).—Jakovlev, S. A.
- Tongking (Asia).—Zeil, G.
- Tongres (Belgian Limburg).—Mourlon, M., 3.
- Topaz, Saxony.—Henglein, M.
- Togography, geology &—Johnson, D. W., 3.
- Tornoceras*.—Wedekind, R.
- Toronto (Canada).—Maury, C. J.
- Torosaurus*.—Hatcher, J. B.
- Torrents, erosion of Alpine.—Kilian, W.
- , Savoy.—Douxami, H.
- Torres, Porto (Sardinia).—Millosevich, F., 3.
- Torreyia*.—Berry, E. W.
- Tortworth (Gloucester).—Reed, F. R. C., 6 & 7; Richardson, L., 16.
- Touat (Sahara).—Gautier, E. F.
- Toucasia*.—Woods, H., 2.
- Touraine (France).—Leriche, M.
- Tourcoing (Nord).—Gosselet, J., 5.
- Tourmakeady (Mayo).—Gardiner, C. I.
- Tourmaline, Burma.—George, E. C. S.
- , New York.—Blake, W. F.
- , ore-deposits &—Redlich, K. A., 3.
- rocks, Cwm Dwythwe.—Fearnside, W. G.
- Tourmaliferous deposits, Madagascar.
- Lacroix, A., 6.
- granulate, Sardinia.—Deprat, J.
- iron-ore, Rothau.—Stutzer, O., 2.
- Tournai (Hainault).—Mourlon, M., 4.
- Toxodonts, horned.—Ameghino, F., 2.
- Trachyte, Budapest.—Koch, A., 2.
- Transporting power of sea-currents.—Owens, J. S.
- Transvaal (S. Afr.).—Gregory, J. W., 6; Hall, A. L., 1-6; Hatch, F. H., 1 & 2; Humphrey, W. A.; Johnson, J. P., 2; Kuntz, J.; Kynaston, H., 1 & 2; Mellor, E. T., 1 & 2; Merensky, H., 2; Penrose, R. A. F.; Sandberg, C. G. S., 4 & 6; Schwarz, E. H. L., 3; Seward, A. C., 3; Voit, F. W., 1, 3, & 6; Young, R. B., 2; *see also* TRANSVAAL, Mines Dep., 1-3.
- Transylvania (Hungary).—Böckh, H. von, 1 & 2; Kadić, O., 3; Pálffy, M. von, 2; Pax, F.; Roth von Telegd, L., 2 & 3.
- Travertine, Ascoli Piceno.—Martelli, A., 4.
- Tree, silicified, Iceland.—Braun, G.
- Trees in Cornish stream-tin deposits.—Whitley, D. G., 2.
- Treffurt (Thuringia).—Naumann, E., 2.
- Trélex-sur-Nyon (Vaud).—Rollier, L., 1 & 2.
- Trematobolus*.—Walcott, C. D., 2.
- Tremiti Is. (Adriatic).—Squinabol, S., 3.
- Tremolite.—Allen, E. T.; Cornu, F., 10.
- Trent R.—Burton, F. M.
- Trenton Falls (N.Y.).—Miller, W. J.
- Treuchtlingen (Bavaria).—Branca, W., 7.
- Trias, Albania.—Arthaber, G. von.
- , Algeria.—Blayac, J.
- , Baluchistan.—Tipper, G. H.
- , Bavaria.—Branca, W., 7.
- , Bristol.—Bolton, H., 2.
- , China.—Abendanon, E. C.
- , Colorado.—Cross, W.
- , Dalmatia.—Kerner, F. von, 3.
- , distribution of.—Frech, F.
- , Dobrudsha.—Simionescu, J., 2.
- , Dombrova.—Bogdanovitch, K.
- , Dutch East Indies.—Hinde, G. J.; Verbeek, R. D. M.
- , fauna and flora.—Lomas, J., 5.
- , Germany (N.).—Kalkowsky, E.
- , Greece.—Frech, F., 4; Négiris, P.; Renz, C., 2.

- Trias, Himalayas.—Diener, C., 4.
 —, Hungary.—Abel, O.
 —, Kotelny I.—Nathorst, A. G.
 —, Luxemburg.—Jérôme, A.; Van Werveke, L., 8.
 —, Meurthe-et-Moselle.—Nicklés, R.
 —, Nepal.—Holland, Sir T. H., 5.
 —, New Jersey.—Lewis, J. V., 2.
 —, Siberia.—Diener, C., 2; Wittenburg, P. von.
 —, Sicily.—Gemmellaro, G. G.
 —, Singapore.—Scrivenor, J. B.
 —, Somerset.—Huene, F. von, 2 & 5.
 —, Swabia.—Zeller, F.
 —, Thuringia.—Naumann, E., 1 & 3.
 —, Tyrol.—Amperferer, O., 4; Gordon, M. O.; Kober, L.; Wittenburg, P. von.
 —, Venetia.—Del Campana, D.
 —, Westphalia.—Stille, H.
 —, Würtemberg.—Schmidt, M., 2.
 —. *See also* Bunter Sandstone, Keuper, &c.
 Triassic sandstones, Exeter.—Clayden, A. W.
Triceratops.—Hatcher, J. B.; Lull, R. S., 2.
Trichonemis.—Cockerell, T. D. A., 2.
Tricolocampe & *Tricolocapsa*.—Hinde, G. J.
 Trient (Tyrol).—Dal Piaz, G.
 Trigno R. (Italy).—Angelis d'Ossat, G. de, 2.
Trigodon.—Ameghino, F., 2.
Trigonia.—Kitchin, F. L.
Trigonodon.—Priem, F.
Trigonograptus.—Elles, G. L.
 Trilobite, Verran quartzite.—Fox, H.
 Trilobites, Cambrian.—Bregger, W. C.; Lake, P.; Raw, F., 1 & 2; Walcott, C. D.
 —, Devonian.—Clarke, J. M.; Gortani, M.; Maillieux, E., 2; Steinmann, G., 3; Zimmermann, F., 3.
 —, Silurian.—Chapman, F., 6; Herrmann, F.; Lake, P., 2; Mordziol, C.; Reed, F. R. C., 4; Wiman, C.
 Trimmingham (Norfolk).—Brydone, R. M.
 Trinidad (W.I.).—Craig, E. H. C., 1 & 3; Ellis, R. W., 4; Guppy, R. J. L.
 Trinil (Java).—Branca, W., 6; Elbert, J.
Trinucleus.—Simoëns, G., 3.
Trionyx.—Merciai, G.
Trissopater.—Woodward, A. S., 7.
Tristomanthus.—Lambert, J. 3.
 Trocadéro (Paris).—Combes, P., *fil.*, 2.
Trochus.—Cossmann, M.; Newton, R. B., 2.
Trochonema.—Clarke, J. M.
Trochosuchus.—Broom, R., 2.
 Trois-Couronnes, Mt. (Pays Basque).—Termier, P.
 Trompia, Val (Lombardy).—Fucini, A., 4.
Tropites.—Gemmellaro, G. G.
 Truckee Region (Cal.).—Loudenback, G. D.
 Truro (Cornwall).—Green, U.
Tryplasma.—Etheridge, R., *fil.*
 Tsang (Tibet).—Hayden, H. H.
 Tschernichévite.—Duparc, L.
 Tsukaba, Mt. (Japan).—Omori, F., 19.
 Tsuneb (Damaraland).—Maucher, W.
Tubicaulis.—Bertrand, P., 3.
 Tübing Alps (Würt.).—Weiger, K.
Tubulipora.—Maplestone, C. M.
 Tufa, Arkansas.—Schlundt, H.
 —, Hainault phosphatic.—Delhay, F.
 —, Somme Valley.—Briquet, A., 4.
 Tufaceous sandstone, Narrabeen Series.—Walton, S. G.
 Tufts, Malakula I.—Chapman, F., 3.
 Tukuringra Range (Siberia).—Rippas, P.
 Tumbes (Peru).—Masters, V. F.
Tumion.—Berry, E. W.
 Tumkur (Mysore).—Sampat Iyengar, P., 2.
 Tungsten.—*See* Wolfram.
 Tungstite.—Walker, T. L.
 Tunis (N. Afr.).—Blake, G. S.; Priem, F.; Termier, P., 3; Washington, H. S., 2; *see also* TUNIS, Expl. Sci.
 Tunnel, Bobache.—Mueller, H.
 —, Fiaccena.—Magri, G.
 —, Gattico.—Martinelli, A.
 —, Noisy-le-Sec.—Morin, M.
 —, Simphon.—Joly, J., 4.
 —, Tauern.—Becke, F.; Berwerth, F.
 —, Weissenstein.—Buxtorf, A. E., 3.
 Tunnels, geology &.—Heim, Alb., 1-4.
 —, New York City.—Hildage, H. T.
Turbo.—Kitchin, F. L.; Pellat, E.; Thomson, J. A., 2.
Turbonilla.—Steinmann, G., 6.
 Turin (Piedmont).—Sacco, F., 1 & 6.
 Turkestan.—Huntington, E.
 — (Chinese).—Vallant, L., 2.
 Turkey (in Europe).—Cvijić, J., 2; Nopcsa, F. von; Renz, C., 2 & 5.
 Turquoise, New Mexico.—Zalinski, E. R.
 Turtles, Tertiary.—Hay, O. P.
 Tuscany (Italy).—Achiardi, G. d', 1 & 2; Delhay, F., 2; Delkeskamp, R.; Fucini, A., 1, 3, & 5; Lotti, B., 2 & 6; Magri, G.; Manasse, E., 1 & 2; Merciai, G.; Novarese, V.; Ravagli, M.; Stefani, C. de; Ugolini, R., 2 & 3; Vinassa de Regny, P. E., 2.
 Tusk, fossil, Kansas *Equus*-beds.—Deere, E. O.
 Tuxedo Park (N.Y.).—Bayley, W. S.
 Twingon (Upper Burma).—Pascoe, E. H.
Twingonia.—Pascoe, E. H.
 Twinning, secondary, in tinstone.—Johnsen, A., 2; *see also* Crystals.
 Tyaak (Victoria).—Howitt, A. M., 3; Hunter, S. B., 3.
 Tyers R. (Vict.).—Easton, J., 3.
 Tygerberg (Cape Colony).—Sandberg, C. G. S., 3; Schwarz, E. H. L., 2.
 Tynemouth (Northumberland).—Garwood, E. J.
 Type-specimens, American Museum of Natural History.—Hussakof, L., 2.
 —, Boston Society of Natural History.—Cushman, J. A.

- Type-specimens, LAMARCK'S.—Bigot, A.
 ———, SOWERBY collection.—Woodward, A. S., 10.
 ———, Wiesbaden Nat. Hist. Mus.—Schöndorf, F.
Typhloniscus.—Reed, F. R. C., 4.
 Typtotheria, Santa Cruz.—Sinclair, W. J.
 Tyrol (Austria).—Ampferer, O., 2-5;
 Blaas, J., 1 & 2; Bowman, H. L.; Canaval, R.; Dal Piaz, G.; Felix, J.; Gordon, M. M. O.; Hammer, W., 1 & 3; Hess, H., 2; Hillebrand, S.; Kober, L.; Lühr, A. von; Ohnesorge, T.; Schulz, F. A. C.; Stiny, J.; Tornquist, A., 1 & 2; Wittenburg, P. von, 1 & 2; Young, A. P.
 Tyrone (Ireland).—Bolton, H.
 Ü (Tibet).—Hayden, H. H.
 Uala (Tomsk Gov.).—Jakovlev, S. A.
 Uccle (Brabant).—Halet, F.
 Uebelbach (Styria).—Heritsch, F., 3.
 Uganda (C. Afr.).—Colomba, L.
 Ugljevik (Bosnia).—Katzner, F., 2.
 Uinta Mts. (Utah).—Emmons, S. F.; Weeks, F. B.
Uintacrinus.—Rowe, A. W.
 Uitenhage Series, Cape Colony.—Kitchin, F. L.
 Ujhartyán (Hungary).—Guell, W.
 Uliveto (Tuscany).—Vinassa de Regny, P. E., 2.
 Ulodendroid scar.—Watson, D. M. S., 4.
 Ulu Selangor (Malay States).—Nightingale, E.
 Umbria (Italy).—Lotti, B., 1, 3, & 5; Principi, P.
Ungeria.—Salfeld, H.
Unio.—Kitchin, F. L.; Teisseyre, W.
 Union Dock (Liverpool).—Lomas, J., 3.
 Union & Dorritt Mine, Gippsland.—Dunn, E. J., 18.
 Unionidae, Tertiary.—Whitfield, R. P.
 United States.—See also California, Coal, Iron, Peat, &c.
 Urach Alps (Würt.).—Weiger, K.
 Ural Mts. (Russia).—Duparc, L., 4;
 Konoushevski, L.; Krasnopolski, A.; Kryžanovski, V. I.; Nikitin, V.
 ——— R. (Russia).—Sokolov, D. N.
 Uranium, geology &—Joly, J., 3.
 ——— minerals.—Boltwood, B. B.
 Urkaschar (E. Siberia).—Obruchev, V. A., 2.
 Urodele, Permian.—Williston, S. W., 2.
 Usk Valley (S. Wales).—Cantrill, T. C., 2.
 Utah (U.S.A.).—Emmons, S. F.; Gilbert, G. K., 3; Lee, W. T., 3; Leith, C. K., 3; Walcott, C. D., 4; Weeks, F. B.
 Vaal R. (S.Afr.).—Merensky, H.
 Vaihingen a. F. (Würt.).—Epstein, L.
 Valais (Switzerland).—Baumhauer, H.; Bernet, E.; Lugeon, M., 2; Sandberg, C. G. S., 1 & 2.
 Valanginian, Grisons.—Baumberger, E., 3.
 ———, Provence, &c.—Sayn, G.
 Valentinite.—Weber, J.
 Valley-erosion, Big Creek (Ind.).—Culbertson, G.
 Valleys, formation of.—Bennett, F. J.; Spicer, E. C., 1 & 2; Wrak, W.
 ———, solution of.—Jukes-Browne, A. J.; Spicer, E. C., 1 & 2.
 ———, sunken, Artois, &c.—Gosselet, J., 6.
 ———. See also Dales.
 Valerio, Mte. (Tuscany).—Aloisi, P., 2.
Valvata.—Cossmann, M.
Valvulinella.—Schubert, R. J., 4.
 Vanadium, Peru.—Smith, J. K.
 Van Diemen Gulf (Austral.).—See SOUTH AUSTRALIA, 4.
 Van Horn (Tex.).—Richardson, G. B.
Vanikoropsis.—Pellat, E.
 Vanthoffite.—Nacken, R.
 Var (France).—Martel, E. A.
 Vaucluse (France).—Camous, V.
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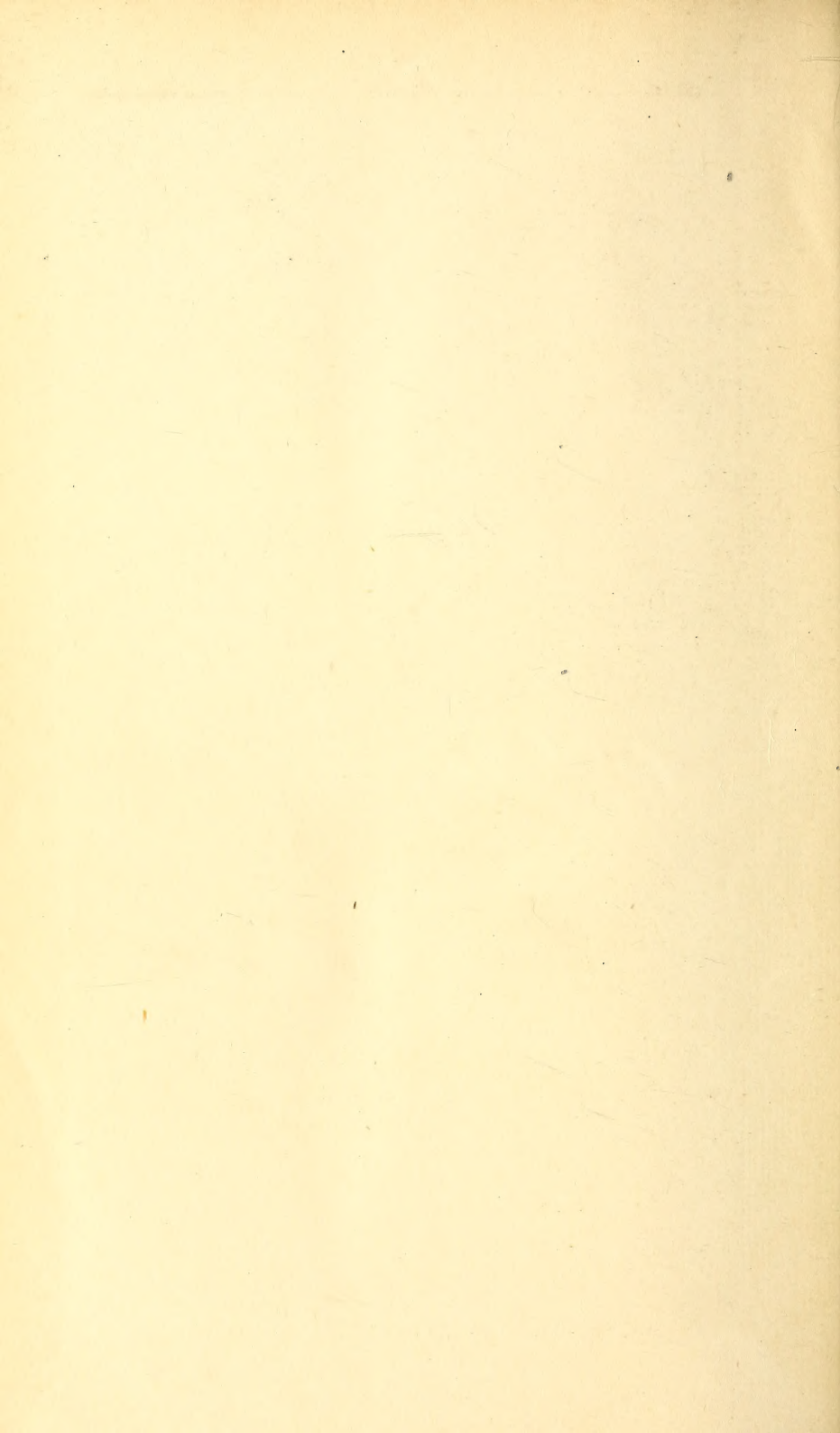
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